API Well Number: 43013525620000

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3
AMENDED REPORT ☑

## APPLICATION FOR PERMIT TO DRILL

| | |
|---|---|
| **1. WELL NAME and NUMBER**<br>GDU 63-5-12 | |
| **2. TYPE OF WORK**<br>DRILL NEW WELL ◉ REENTER P&A WELL ○ DEEPEN WELL ○ | **3. FIELD OR WILDCAT**<br>UNDESIGNATED |
| **4. TYPE OF WELL**<br>Gas Well Coalbed Methane Well: NO | **5. UNIT or COMMUNITIZATION AGREEMENT NAME**<br>GILSONITE DRAW |
| **6. NAME OF OPERATOR**<br>VANTAGE ENERGY UINTA LLC | **7. OPERATOR PHONE**<br>303 386-8600 |
| **8. ADDRESS OF OPERATOR**<br>116 Inverness Drive East, Ste 107, Englewood , CO, 80112 | **9. OPERATOR E-MAIL**<br>john.moran@vantageenergy.com |
| **10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)**<br>UTU78235 | **11. MINERAL OWNERSHIP**<br>FEDERAL ◉ INDIAN ○ STATE ○ FEE ○ |
| | **12. SURFACE OWNERSHIP**<br>FEDERAL ◉ INDIAN ○ STATE ○ FEE ○ |
| **13. NAME OF SURFACE OWNER (if box 12 = 'fee')** | **14. SURFACE OWNER PHONE (if box 12 = 'fee')** |
| **15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')** | **16. SURFACE OWNER E-MAIL (if box 12 = 'fee')** |
| **17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')** | **18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS**<br>YES ○ (Submit Commingling Application) NO ◉ |
| | **19. SLANT**<br>VERTICAL ○ DIRECTIONAL ◉ HORIZONTAL ○ |

| 20. LOCATION OF WELL | FOOTAGES | QTR-QTR | SECTION | TOWNSHIP | RANGE | MERIDIAN |
|---|---|---|---|---|---|---|
| LOCATION AT SURFACE | 760 FNL 1834 FWL | NENW | 5 | 6.0 S | 3.0 W | U |
| Top of Uppermost Producing Zone | 660 FNL 1980 FWL | NENW | 5 | 6.0 S | 3.0 W | U |
| At Total Depth | 660 FNL 1980 FWL | NENW | 5 | 6.0 S | 3.0 W | U |

| | | |
|---|---|---|
| **21. COUNTY**<br>DUCHESNE | **22. DISTANCE TO NEAREST LEASE LINE (Feet)**<br>660 | **23. NUMBER OF ACRES IN DRILLING UNIT**<br>2250 |
| | **25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)**<br>205 | **26. PROPOSED DEPTH**<br>MD: 6205 TVD: 6200 |
| **27. ELEVATION - GROUND LEVEL**<br>6776 | **28. BOND NUMBER**<br>UTB000288 | **29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE**<br>49-1501 |

### Hole, Casing, and Cement Information

| String | Hole Size | Casing Size | Length | Weight | Grade & Thread | Max Mud Wt. | Cement | Sacks | Yield | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| SURF | 12.25 | 8.625 | 0 - 500 | 24.0 | J-55 ST&C | 0.0 | Class G | 225 | 1.17 | 15.8 |
| PROD | 7.875 | 5.5 | 0 - 6205 | 15.5 | K-55 LT&C | 8.9 | Premium Lite High Strength | 129 | 3.5 | 11.0 |
| | | | | | | | 50/50 Poz | 403 | 1.25 | 14.4 |

### ATTACHMENTS

**VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES**

| | |
|---|---|
| ☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER | ☑ COMPLETE DRILLING PLAN |
| ☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE) | ☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER |
| ☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED) | ☑ TOPOGRAPHICAL MAP |

| | | |
|---|---|---|
| **NAME** Andrea Gross | **TITLE** Project Coordinator | **PHONE** 303 941-0506 |
| **SIGNATURE** | **DATE** 10/15/2013 | **EMAIL** agross@upstreampm.com |

**API NUMBER ASSIGNED**
43013525620000

**APPROVAL**

Permit Manager



RECEIVED: October 24, 2013

Vantage Energy Uinta LLC
**GDU 63-5-12**
SHL: 760' FNL 1,834' FWL (NE/4 NW/4)
BHL: ±660' FNL ±1,980' FWL (NE/4 NW/4) within a 60' radius
Sec. 5 T6S R3W
Duchesne County, Utah
Federal Lease: UTU78235

**NINE POINT DRILLING PROGRAM**

(All drilling procedures will comply with BLM *Onshore Oil and Gas Orders 1 and 2*)

**Operator respectfully requests that all information regarding this well be kept confidential.**



**a) GEOLOGIC MARKERS**

Anticipated tops of geologic markers are indicated in **Table 1**

**Table 1 Estimated Tops of Geologic Markers**

| Formation | Vertical Depth | Measured Depth | Subsea Depth | Description |
|---|---|---|---|---|
| Green River | Surface | Surface | 6,788' | Sandstone/siltstone/shale |
| Garden Gulch | 3,491' | 3,495' | 3,297' | Sandstone/siltstone/shale |
| Douglas Creek | 4,428' | 4,433' | 2,360' | Sandstone/siltstone/shale |
| Castle Peak | 5,313' | 5,318' | 1,475' | Sandstone/siltstone/shale |
| Uteland Butte | 5,788' | 5,793' | 1,000' | Carbonate/shale/sandstone |
| Wasatch | 5,998' | 6,003' | 790' | Shale/sandstone |
| Total Depth | 6,200' | 6,205' | 588' | TD ± 200' TVD into Wasatch |

Surface Elevation: 6,773' (Ground) 6,788' (Est. KB). Proposed Total Depth: 6,205' / 6,200' (MD/TVD)

**b) DEPTHS OF WATER AND MINERAL-BEARING ZONES**

Potential water-bearing zones in the vicinity include the Wasatch and Green River formations (Robson and Banta, 1995. *Ground Water Atlas of the United States Segment 2*, Hydrologic Investigations Atlas 730-C, U.S. Geological Survey, Reston, VA). A review of data from the Utah Division of Water Rights indicate no permitted water wells within a one mile radius of the proposed location. Utah Division of Oil, Gas, and Mining surface casing depth requirements will protect potential aquifers in the area.

The depths to potential water and/or mineral-bearing zones are indicated in **Table 2**.

RECEIVED: October 16, 2013

**Table 2: Principal Anticipated Water and Mineral-bearing Zones**

| Formation | Measured Depth | Subsea | Potential Contents |
|---|---|---|---|
| Green River | Surface | 6,788' | Surface – Possible Water |
| Garden Gulch | 3,495' | 3,297' | Possible Water |
| Douglas Creek | 4,433' | 2,360' | Oil / Gas |
| Castle Peak | 5,318' | 1,475' | Oil / Gas |
| Uteland Butte | 5,793' | 1,000' | Oil / Gas |
| Wasatch | 6,003' | 790' | Oil / Gas |

**c) MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL EQUIPMENT**

The maximum anticipated surface pressure for this well is calculated to be **1,364 psi**. Therefore, rules for a 2,000 psi rated BOP and choke manifold system are applicable. However, the typical rig inventory will consist of a 3,000 psi rated BOP and choke manifold. As such, the rig's BOP and choke manifold equipment will be tested to the standards for a 2,000 psi BOP system. A diagram of the proposed 2,000 psi rated BOP stack configuration is shown in **Fig. 1**.

BOPs and choke manifold will be installed and pressure tested before drilling out from under surface casing (subsequent pressure tests will be performed whenever pressure seals are broken) and then will be checked daily as to mechanical operating condition. BOPs will be pressure tested at least once every 30 days. The annular preventer, pipe rams, and blind rams will be activated on each trip and Operator will conduct weekly BOP drills with the rig crew. Both manual and remote closing mechanisms will be installed on the BOP stack and will be readily available to the driller.

Ram type preventers and related pressure control equipment will be pressure tested to rated working pressure of the stack assembly if a test plug is used. If a plug is not used, the stack assembly will be tested to the rated working pressure of the stack assembly or to 70% of the minimum internal yield of the casing, whichever is less. **Please see variance request at end of program for this section.**

Annular type preventers will be pressure tested to 50% of their rated working pressure. A Sundry Notice (Form 3160~5), along with a copy of BOP test report, shall be submitted to the BLM within 5 working days following the test. All casings strings will be pressure tested to 0.22psi/ft or 1,500psi, whichever is greater, not to exceed 70% of internal yield. **Please see variance request at end of program for this section.**



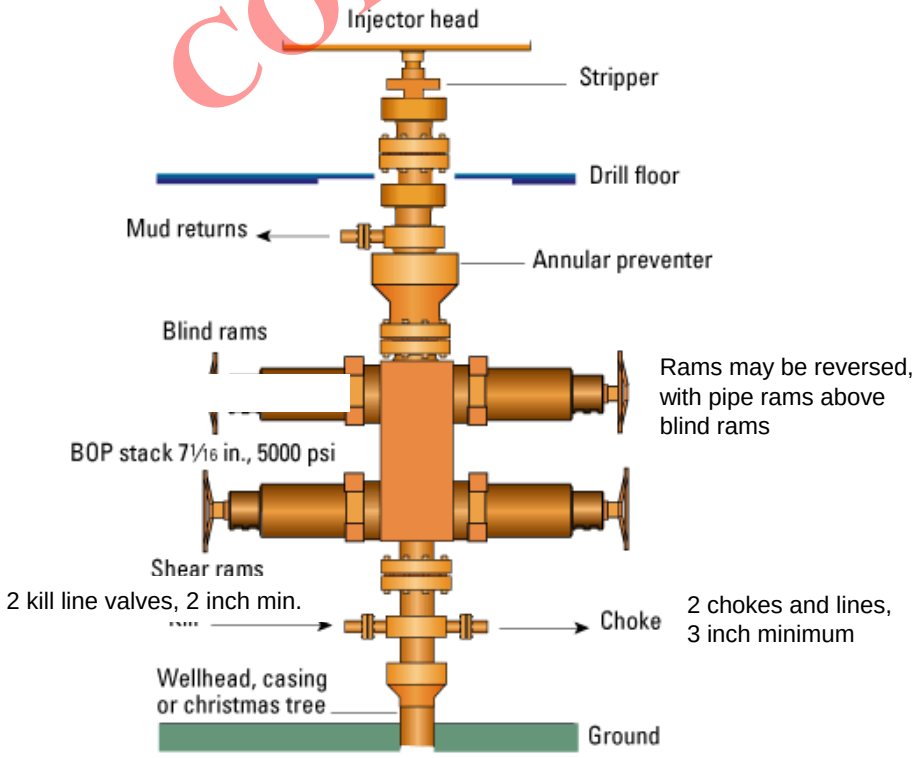


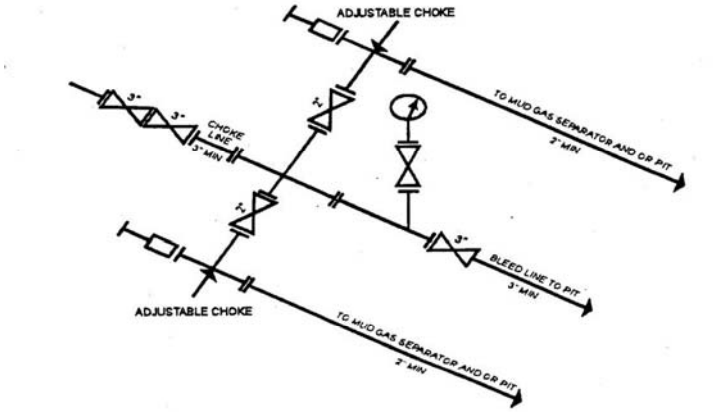
RECEIVED: October 16, 2013

# Figure 1: Pressure Control Schematic

**Vantage Energy Uinta LLC**
**GDU 63-5-12 (Formerly 63-5-11)**
SHL: 760' FNL 1,834' FWL
BHL: ± 660' FNL, ± 1980' FWL
Sec. 5, T6S R3W
Duchesne County, Utah
Federal Lease UTU-78235

**Generalized Setup for 2,000 psi Working Pressure System**
**Actual BOP Stack Used May Vary in Some Details**




3M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY
[54 FR 39528, Sept. 27, 1989]

**Installed BOP Stack Will Meet All Requirements of BLM Onshore Oil and Gas Order 2**



RECEIVED: October 16, 2013

Statement on Accumulator System and Location of Hydraulic Controls

The drilling rig has not yet been selected for this well. Selection will take place after approval of this application. Manual and/or hydraulic controls will be in compliance with *Onshore Oil and Gas Order No. 2* for 2,000 psi systems. Irregardless of the rig selected, the rig's accumulator system shall have sufficient capacity to close all BOP equipment and retain 200 psi above precharge pressure. The proposed pressure control equipment will meet or exceed standards specified in the Order.

**d) CASING PROGRAM**

Casing of quality equal to or better than that indicated in **Tables 3** and **4** will be used for this well. Actual casing used will be dependent on availability.

**Table 3 Proposed Casing Program**

| Depth (MD) | Hole Diameter | Casing Diameter | Casing Weight and Grade |
|---|---|---|---|
| 0 – ± 40' | 20" | 14" | Optional Conductor – Only if Required |
| 0 – 500' | 12 1/4" | 8 5/8" | 24# J55 ST&C, API New Pipe |
| 0 – 6,205' | 7 7/8" | 5 1/2" | 15.5# K55 LT&C, API New Pipe |

**Table 4: Proposed Casing Specifications and Design Safety Factors**

| Size | Collapse (psi) | Burst (psi) | Body Strength (1,000 lbs.) | Joint Strength (1,000 lbs.) | Thread | *Safety Factors | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Burst Design (1.2) | Collapse Design (1.0) | Tension Design (1.4) |
| 14" | NA – 0.219" wall structural and to seal shallow gravels to allow air drilling surface hole | | | | Weld | NA | NA | NA |
| 8 5/8" 24# J55 | 1,370 | 2,950 | 381 | 244 | ST&C | 1.96 | 5.55 | 4.26 |
| 5 1/2" 15.5# J55 | 4,040 | 4,810 | 248 | 217 | LT&C | 1.25 | 1.48 | 1.63 |



***Safety Factor Calculation Assumptions:**

**Surface Casing**:

**Burst Load:** Assumes greater of MASP (maximum anticipated surface pressure) exposure during a worse case kick scenario while drilling at total depth, with mud/gas mixture whose gradient is 0.22 psi/ft. OR, minimum required casing test pressure.

MASP
Load = (Formation Gradient – 0.22 psi/ft) * Total Depth, TVD
= (0.44 psi/ft – 0.22 psi/ft) * 6,200 ft.
= 1,364 psi

TEST PRESSURE
Load = Greater of 1,500 psig *or* 0.22 psi/ft * 500 ft = 110 psig
Load = Greatter of 1,500 psig *or* 1,364 psig *or* 110 psig
**SF Burst = 2,950 psi / 1,500 psi = 1.96**



RECEIVED: October 16, 2013

**Collapse Load:** Assumes worse case loading of evacuated casing during cementing process.
Cement density = 15.8 ppg
Load = 15.8 ppg * 0.052 * 500 ft
= 410.8 psi
**SF Collapse = 1370 psi / 410 psi = 3.33**

**Tension Load:** Assumes air weight at total depth + 50,000 lbs overpull design factor.
Load = (24 lbs/ft * 500 ft) + 50,000 lbs overpull
= 62,000 lbs
**SF Tension = 244,000 lbs / 62,000 lbs = 43.94**

**Test Pressure =**

**Production Casing**

**Burst Load:** Assumes maximum load applied during the hydraulic fracture stimulations. It is Vantage Energy's policy not to exceed 80% rating of the production casing during the stimulation treatment. The 80% rating factor will also be the casing test pressure.

Load = 4810 psi * 0.80
= 3848 psi
**SF Burst = 4810 psi / 3848 psi = 1.25**

**Collapse Load:** Assumes worse case loading applied during the production cycle, with evacuated casing, and normally pressured formation gradient applied externally.

Load = 0.44 psi/ft * 6200 ft
= 2728 psi
**SF Collapse = 4040 psi / 2728 psi = 1.48**

**Tension Load:** Assumes buoyed weight of casing at total depth + 50,000 lbs overpull design factor.

Load = [15.5 lbs/ft * 6205 ft* ((65.5 – 9.0) / 65.5)] + 50,000 lbs
= 83,738 lbs + 50,000 lbs
= 132,962 lbs
**SF Tension = 217,000 lbs / 132,962 lbs = 1.63**





RECEIVED: October 16, 2013

**e) CEMENT PROGRAM**

**Table 5: Proposed Cement Program (Reference attached BJ Services Program)**

| Depth | Hole Diameter | Casing Diameter | Cement |
|---|---|---|---|
| 0' – ± 40' | 20" | 14" | Optional structural conductor if required: Grout with approximately 3.5 cubic yards of redi-mix back to surface (includes 100% excess)<br><br>**TOC: Surface (Top-off per visual observation)** |
| 0' – 500' | 12 1/4" | 8 5/8" | **Single Slurry System (300' – Surface) + 40' Shoe Joint**<br><br>225 sks Class G + 2% $CaCl_2$ + ¼ lb/sk celloflake.<br><br>Density: 15.8 ppg<br>Yield: 1.17 cuft/sk<br>Water: 5.0 gal/sk<br>Excess = 100% in open hole<br><br>**TOC: Surface (Top-off per visual observation)** |
| 0' - 6,205' | 7 7/8" | 5 1/2" | **Lead System (4,000' – 2,000')**<br>129 sks Premium Lite II +0.05 lbs/sk Static Free + 3% KCL + + ¼ lb/sk celloflake + 3 lbs/sk Kol Seal + 0.002 gps FP-6L + 10% gel + 0.5% Sodium Metasillicate + 5 lbs/sk CSE-2<br><br>Density: 11.0 ppg<br>Yield: 3.50 cuft/sk<br>Water: 21.4 gal/sk<br>*Excess: 30%<br><br>**Tail System (6,205' – 4,000') + 40' Shoe Joint**<br>403 sks 50:50 (Class G:Poz) + 0.05 lbs/sk Static Free + 0.15% R-3 + 3% KCL + 0.5% EC-1 + ¼ lb/sk celloflake + 0.5% FL-25 + 0.002 gps FP-6L + 2% gel + 0.3% Sodium Metasillicate<br><br>Density: 14.4 ppg<br>Yield: 1.25 cuft/sk<br>Water: 5.48 gal/sk<br>*Excess: 30% |



*Note: The production hole cement volume excess factor will be adjusted on location by the caliper log, and will be re-calculated using caliper volume + 10% excess factor.

**f) MUD PROGRAM**

The mud program for the proposed well is indicated in **Table 6.**



RECEIVED: October 16, 2013

**Table 6 Proposed Mud Program (See attached Advantage mud program)**

| Interval (feet) | Mud Weight (lbs/gallon) | Viscosity (secs/qt) | Fluid Loss (ccs/30 min) | Mud Type |
|---|---|---|---|---|
| 0 – ± 40’ | NA | NA | NA | NA |
| Set optional 14" conductor with bucket rig | | | | |
| 40' - 500'± | NA | NA | N/C | Air/Mist |
| Run/cement 8 5/8" surface casing | | | | |
| 500'± - 3,500’ | 8.3 – 8.9 | 28 – 48 | 10 - 18 | FW / PHPA |
| 3,500’ - TD | 8.4 – 8.9 | 34 – 58 | 8 - 10 | 3% KCL / PHPA |
| Run Logs – Run/cement 5 1/2" production casing | | | | |

Surface Hole Comments: Spud with “spudder rig” and air drill surface hole misting as may be required to assist with cuttings removal. Report any water encountered to the appropriate agencies. **Please see variance requests for this section.**

Production Hole Comments: Drill out surface casing with fresh water using pre-hydrated gel and PHPA polymer mud sweeps to assist with hole cleaning. At approximately 3,500' “mud up” and “close in” the fluid system to a 2-3% KCL base fluid. Use PHPA PAC and lignite for filtration control. Maintain fluid system through potential production zones to TD. Should seepage losses be experienced, control with LCM sweeps consisting of calcium carbonate, sawdust, cedar fiber, or mica.

Sufficient mud materials will be maintained on location to adequately maintain mud properties and control lost circulation zones that may be encountered. Monitoring equipment will be installed on site to detect changes in mud volume.



**g) LOGGING, CORING, AND TESTING PROGRAM**

The proposed logging program is indicated in **Table 7**.

**Table 7 Proposed Logging Program**

| Log Suites | Depth Range | Remarks |
|---|---|---|
| DIL-SP-LD-CN | Surface Casing to TD | Standard "triple combo" equivalent with resistivity-spontaneous potential, litho-density, compensated neutron, gamma ray, and caliper<br>Will pull GR to surface |
| Dipole Sonic | ± 4,000’ to TD | Optional – Operator’s discretion<br>Rock property data |
| Rotary Sidewall Cores | ± 4,000’ to TD | Optional – Operator’s discretion<br>PP/Lithology data (perm-porosity) |

No coring or drill stem tests are planned. Mud logging unit will be operational from 200 feet above the Douglas Creek through total depth. Cuttings will be sampled every 20-30 feet.

Prospective zones from the Douglas Creek formation through total depth will be perforated, tested, and potentially acid-washed. It is anticipated that multi-stage hydraulic fracture stimulations of the reservoir will be required.



RECEIVED: October 16, 2013

**h) ANTICIPATED PRESSURES AND HAZARDS**

No abnormal pressures are anticipated. Pressure gradient in the Green River and Wasatch sequence is expected to be sub-normal pressured to less than 0.44 psi/ft.

| | |
|---|---|
| Estimated BHP Douglas Creek (4,428') | 1,948 psi |
| Estimated BHP Wasatch (5,998') | 2,639 psi |
| Estimated BHP Total Depth (6,200') | 2,728 psi |
| Hydrostatic head of gas/mud column | 0.22 psi/ft. |
| **Maximum design surface pressure** | 0.44 – 0.22 psi/ft x 6,200 ft = **1,364 psi** |

No H2S zones are anticipated. Lost circulation can be encountered. A variety of sized lost circulation materials will be maintained on location in the event lost circulation is experienced. No abnormal lost circulation zones are anticipated. The proposed well is a southern extension test of producing wells in T5S-R3W. Abnormal pressures will not be experienced to the proposed depth in this area.

**i) DIRECTIONAL PROGRAM (See attached directional plan by Weatherford)**

The GDU 63-5-12 will be drilled as a directional well, with a bottom hole located in the center of NE¼ NW¼ Section 5, T6S-R3W on a 40-acre spacing pattern. The vertical section distance between the surface and the bottom hole is 198'. The bottom hole will be landed within a 200' radius target tolerance on all sides except the north line, where a minimum drift of 50' will be used as target tolerance to maintain a 600' setback from the section north line (unit boundary). The directional plan will consist of a build-and-drop "S" profile, with a planned KOP of 500', and a build/drop rate of 1.5°/100'.

The purpose of the directional well is to establish an "ideal" 40-acre drainage pattern for future development considerations.



**j) OTHER INFORMATION**

Contact Information and Personnel
Mailing Address
Vantage Energy Uinta LLC
116 Inverness Drive, Suite 107
Englewood, CO 80112
Main Number: 303-386-8600
Fax Number: 303-386-8700

Primary Contact: Seth Urruty
Office Direct: 303-386-8623
Fax Direct: 303-386-8723
Mobile: 303-815-7678
E-Mail: Seth.Urruty@VantageEnergy.com

Drilling Operations: John Moran
Office Direct: 303-386-8610
Fax Direct: 303-386-8710
Mobile: 303-249-2234
E-Mail: John.Moran@VantageEnergy.com

Completion/Production Operations: Eric Burkhalter



RECEIVED: October 16, 2013

Office Direct: 303-386-8621
Fax Direct: 303-386-8721
Mobile: 817-480-5227
E-Mail: Eric.Burkhalter@VantageEnergy.com

Geologist: Karen Wagner
Office Direct: 303-386-8626
Fax Direct: 303-386-8726
Mobile: 720-903-0740
E-Mail: Karen.Wagner@VantageEnergy.com

Landman: Michael Holland
Office Direct: 303-386-8638
Fax Direct: 303-386-8738
Mobile: 303-396-3443
E-Mail: Michael.Holland@VantageEnergy.com





RECEIVED: October 16, 2013

## START DATE AND DURATION OF ACTIVITIES

Anticipated start date

The drilling operations will commence as soon as possible following contracting of drilling rig and in compliance with restrictions imposed by lease stipulations and/or Conditions of Approval. It is therefore anticipated the access upgrade work and location work would commence on or about May 1, 2014, with a target spud date of May 15, 2014. It is anticipated the drilling phase will require 7 days.

Completion

The well pad will be of sufficient size to accommodate all required completion equipment and activities. It is anticipated select intervals will be perforated, stimulated and adequately tested for the presence of commercial hydrocarbons prior to moving uphole to the next prospective test interval. As such, it is anticipated the completion phase will require 45 days.

The total project duration is therefore estimated to be **52 days**, and therefore anticipated to be concluded on or about June 29, 2014.

A string of 2 7/8 inch 6.5 lb/ft. J-55 tubing would be run as the production tubing. A Sundry Notice will be submitted should there be any changes to the proposed completion program.



## VARIANCE REQUESTS

1. Operator requests a variance to *Onshore Oil and Gas Order 2, Item B, No. 1h*, regulations requiring the surface casing be tested to the greater of 1500 psig, or 70% of the minimum internal yield.
    a. The MASP for this well is calculated to be 1,364 psig, while the 70% yield rating is 2,065 psig.
    b. Operator therefore requests approval to test the surface casing to the lesser value of 1,500 psig which is greater than the MASP value.
2. Operator requests a variance to *Onshore Oil and Gas Order 2, Item A*, regulations which outline test pressures for 3M pressure control systems.
    a. The drilling contractor's standard inventory will consist of 3M pressure control systems; however, as cited above, the MASP for this well is calculated to be 1,364 psig. As such, 2M pressure control equipment is sufficient for the drilling of this well.
    b. Operator therefore requests approval to test contractor's 3M BOPE to 2M pressure system standards. The double ram preventer will be tested to 2,000 psig, and the annular preventer will be tested to 1,500 psig. Safety valves and choke/kill valves and lines will all be tested to 2,000 psig.
3. Operator requests a variance to *Onshore Oil and Gas Order 2, Item E*, regulations for air/gas drilling operations. Operator plans to "pre-set" the surface casing and drill the surface hole to a depth of 300', with a "spud rig", in a separate operation from the drilling rig. No hydrocarbons are present in the surface hole section and therefore, "gas" drilling is not applicable to this hole section. Therefore, for the purpose only of drilling the surface hole with an air rig, Operator requests the following four (4) variances from the order that states "…the following equipment shall be in place and operational during air/gas drilling: (1) properly lubricated and maintained rotating head; (2) blooie line discharge one hundred feet (100') from wellbore; (3) automatic igniter or continuous pilot light on the blooie line; and (4) compressor located…a minimum of 100 feet (100') from the wellbore".
    a. Operator requests approval to use a diverter bowl rather then a rotating head as specified in the Order. The diverter bowl forces air and cuttings to the reserve pit and is only used to drill the surface hole (to a total depth of 300'). The surface hole section is non-hydrocarbon bearing, and therefore formation pressures will not require a pressure rated rotating head. Should water flows be encountered, they will be reported to the appropriate agencies.
    b. Operator requests approval to use a blooie line with a discharge length of less than the required one hundred feet (100') from the wellbore in order to minimize the well pad size, and to direct the cuttings into the reserve pit. The wellbore is to be located approximately thirty-five feet (35')



RECEIVED: October 16, 2013

from the reserve pit which is to be seventy feet (70') wide. Therefore, a one hundred foot (100') blooie line would blow cuttings across the reserve pit. The requested length of blooie line to drill the surface hole is thirty-five feet (35'). This is the distance necessary to reach the edge of the reserve pit, and to therefore direct cuttings into the reserve pit in a safe and efficient manner.

c. Operator requests approval to operate without an automatic igniter or continuous pilot light on the blooie line. The surface hole section is non-hydrocarbon bearing and therefore does not require a continuous ignition source.

d. Operator requests approval to use a trailer mounted air compressor located less than one hundred feet (100') from the wellbore in order to minimize the location size. The compressor will be located fifty feet (50') from the wellbore in an opposite direction of the blooie line. The compressor has the following safety features: (1) shut-off valve on the trailer located approximately fifteen feet (15') from the air rig; (2) pressure relief valve on the compressor; and (3) spark arrestors on the motors. The compressor will only be used for the drilling of the surface hole, which is non-hydrocarbon bearing.

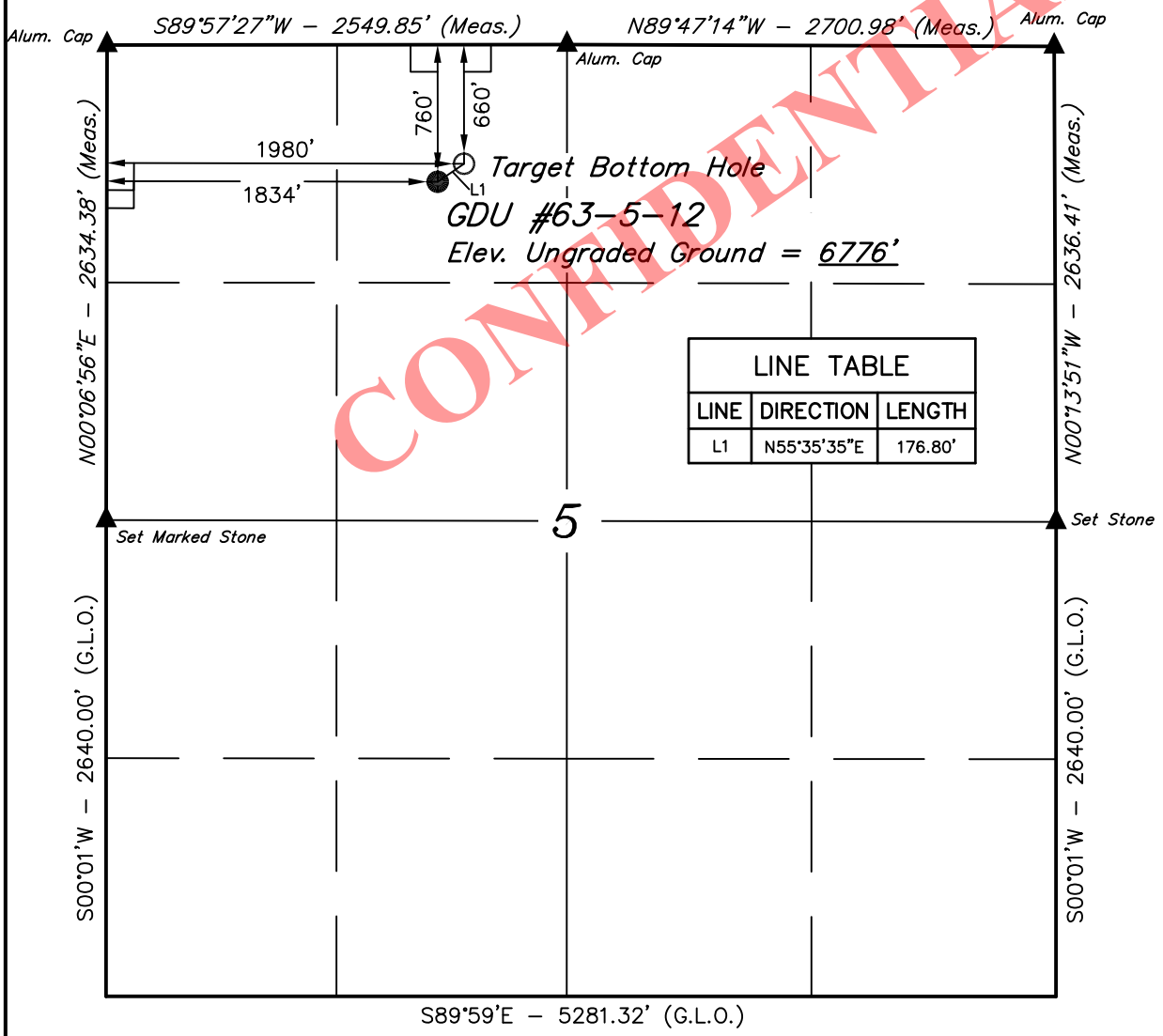




RECEIVED: October 16, 2013

API Well Number: 43013525620000

# T6S, R3W, U.S.B.&M.




CONFIDENTIAL

| LINE TABLE | | |
|---|---|---|
| LINE | DIRECTION | LENGTH |
| L1 | N55°35'35"E | 176.80' |

## Vantage Energy Uinta LLC

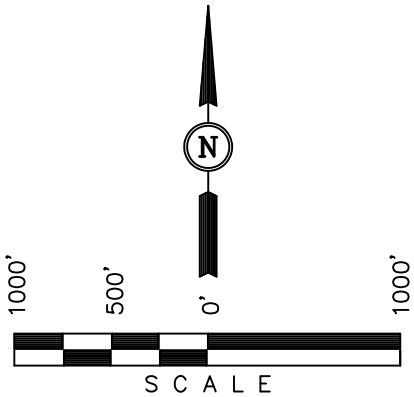
Well location, GDU #63–5–12, located as shown in the NE 1/4 NW 1/4 of Section 5, T6S, R3W, U.S.B.&M., Duchesne County, Utah.

## BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6097 FEET.

## BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.




### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

08-27-12

REGISTERED LAND SURVEYOR NO. 161319 ROBERT L. KAY STATE OF UTAH

**LEGEND:**

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

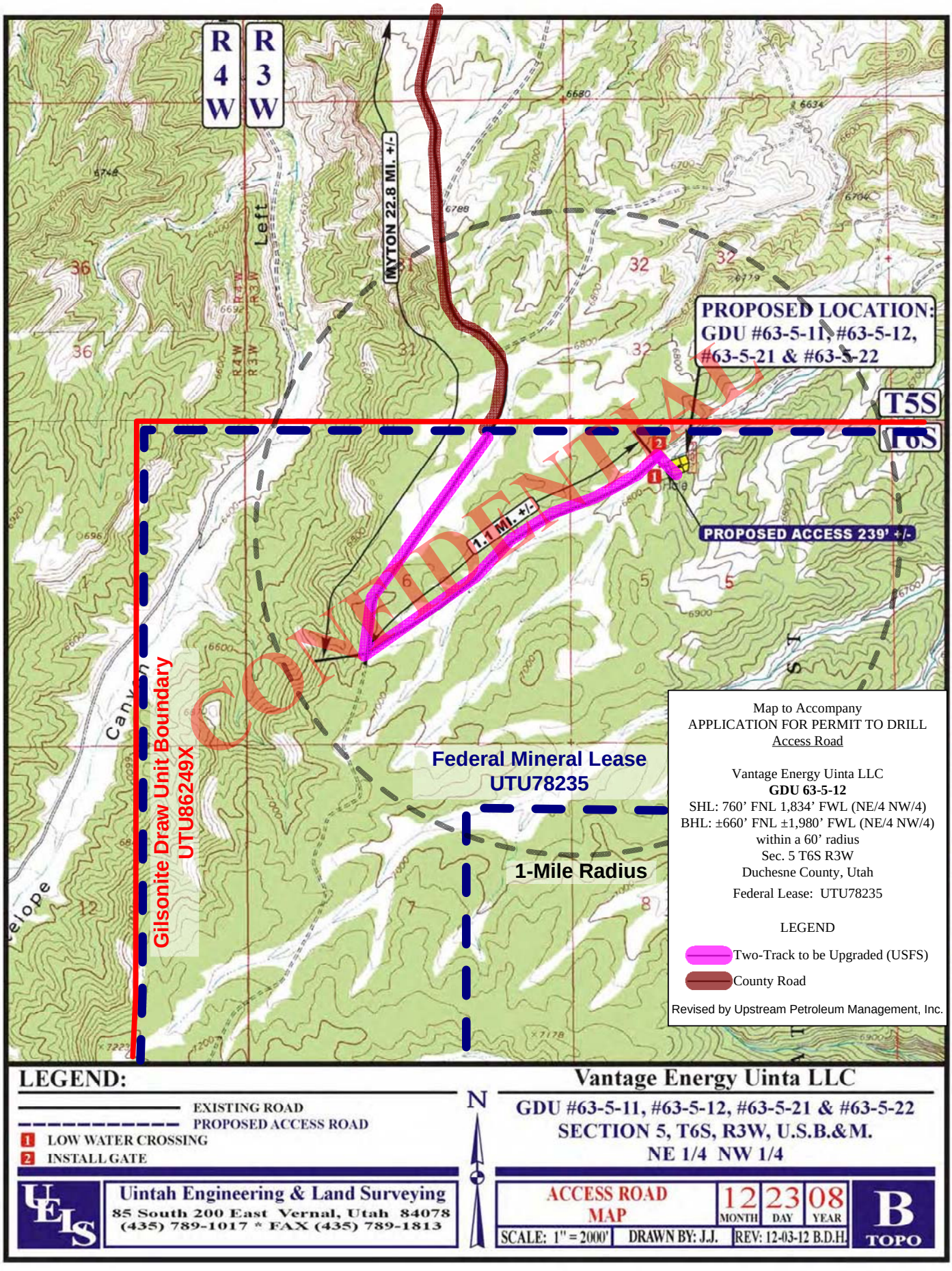
| NAD 83 (TARGET BOTTOM HOLE) | NAD 83 (SURFACE LOCATION) |
|---|---|
| LATITUDE = 39°59'38.71" (39.994086) | LATITUDE = 39°59'37.72" (39.993811) |
| LONGITUDE = 110°14'56.92" (110.249144) | LONGITUDE = 110°14'58.80" (110.249667) |
| **NAD 27 (TARGET BOTTOM HOLE)** | **NAD 27 (SURFACE LOCATION)** |
| LATITUDE = 39°59'38.84" (39.994122) | LATITUDE = 39°59'37.85" (39.993847) |
| LONGITUDE = 110°14'54.37" (110.248436) | LONGITUDE = 110°14'56.25" (110.248958) |


**UINTAH ENGINEERING & LAND SURVEYING**
**85 SOUTH 200 EAST – VERNAL, UTAH 84078**
(435) 789–1017

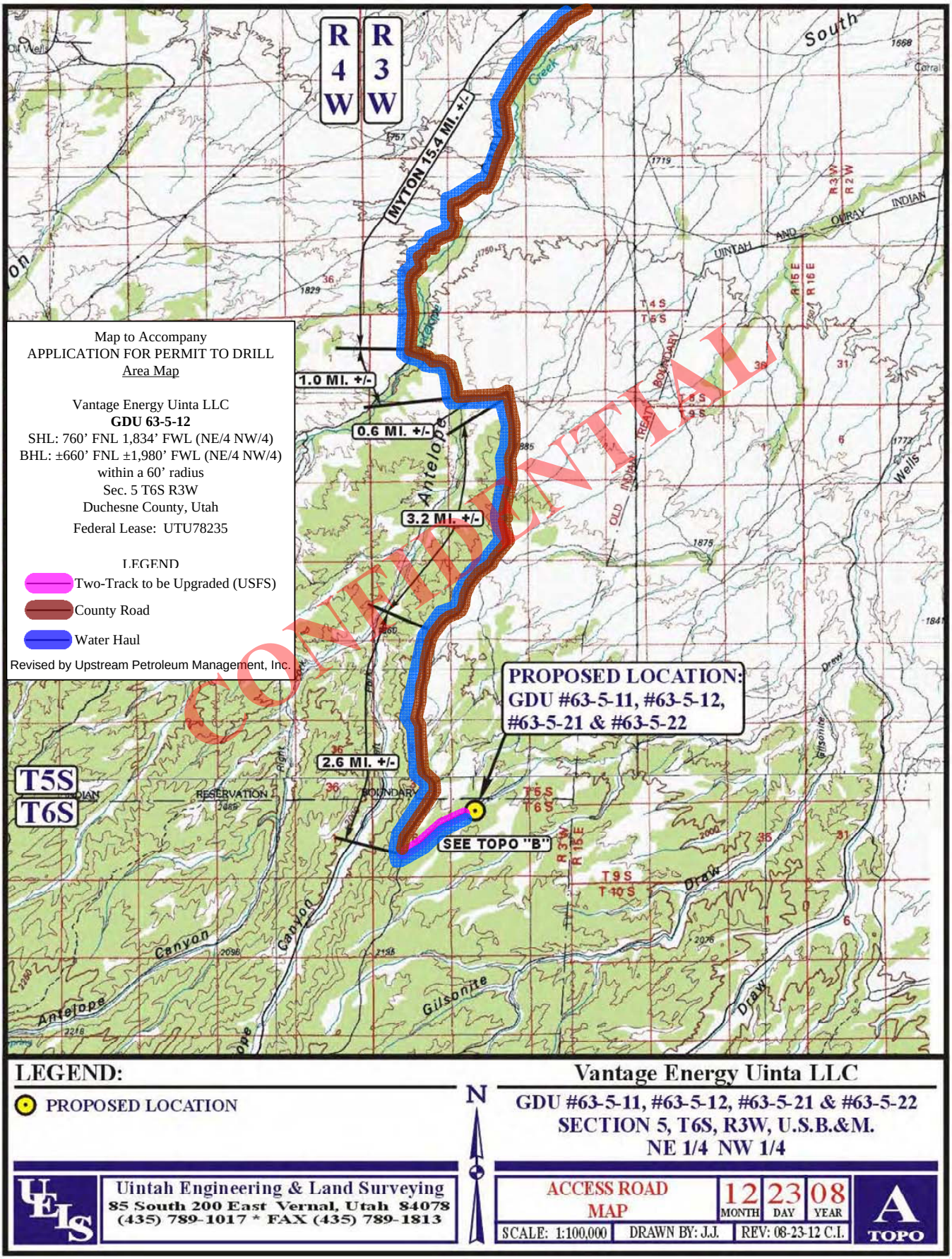

| | | |
|---|---|---|
| SCALE: 1" = 1000' | DATE SURVEYED: 08–20–12 | DATE DRAWN: 08–22–12 |
| PARTY: M.A. T.E B.D.H. | REFERENCES: G.L.O. PLAT | |
| WEATHER: WARM | FILE: Vantage Energy Uinta LLC | |


RECEIVED: October 15, 2013

API Well Number: 43013525620000




RECEIVED: October 16, 2013




RECEIVED: October 16, 2013

Vantage Energy Uinta LLC
**GDU 63-5-12**
SHL: 760' FNL 1,834' FWL (NE/4 NW/4)
BHL: ±660' FNL ±1,980' FWL (NE/4 NW/4) within a 60' radius
Sec. 5 T6S R3W
Duchesne County, Utah
Federal Lease: UTU78235

## SURFACE USE PLAN OF OPERATIONS

**Vantage Energy Uinta LLC respectfully requests that all information regarding this well be kept CONFIDENTIAL.**



This Application for Permit to Drill (APD) is being filed under the APD process as stated per Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents.

WELL LOCATION AND INTRODUCTION
The wellsite was surveyed and staked at 750' FNL 1,804' FWL (NE/4 NW/4) of Sec. 5 T6S R3W on December 17, 2008, by Uintah, in the Ashley National Forest and a site that was geologically and topographically acceptable. The wellsite and access road fall within the boundary of the Gilsonite Draw Unit identified by Serial Register No. UTU86249X. The well was re-staked and moved to accommodate multiple wells on the wellpad at 760' FNL 1,834' FWL (NE/4 NW/4) of Sec. 5 T6S R3W on August 20, 2012. The anticipated bottomhole did not move.

DIRECTIONS TO LOCATION:
From the intersection of State Highway 40 and Antelope Canyon Road southeast of Bridgeland, Utah, travel south/southwesterly ±3.3 miles to an existing gravel resource road. Turn left and travel easterly for ±1.4 miles to a "Y" intersection. Turn right on Gilsonite Ridge Road, which becomes the National Forest Road (FR) 337 at the Ashley National Forest boundary, and travel southerly for ±8.5 miles to an existing road. Turn right and travel northeasterly for ±1.1 miles to the staked proposed access road. Turn right and travel east/southeasterly on the staked access road for ±225' (0.04 miles) to the proposed location.

1) EXISTING ROADS
*This APD will serve as a request for USFS/BLM to initiate a Right-of-Way (ROW) application for access roads and water haul routes, if necessary. This ROW can continue up to the wellhead. Width of ROW requested is 40 feet.*

The well is an exploratory well.

A) Existing roads with 2.00 miles consist of a maintained dirt and gravel surfaced road forest road to within 1.10 miles of the location and an existing road, which will be upgraded, to within 0.04 miles, which will provide access to the proposed location.

B) The existing road will be upgraded to the minimum degree necessary. Upgrading may include ditching, drainage, graveling, crowning, capping the roadbed as necessary to provide a well constructed safe road; however, because this is an exploratory well, improvements to the access road will consist of the minimum construction needed for safe travel. Prior to any upgrading, the road will be cleared of any snow cover and allowed to dry completely. Upgrading will not be allowed during muddy conditions. Should mud holes develop, they will be filled in and detours around them avoided.

C) The existing roads will be maintained and repaired as necessary.

RECEIVED: October 16, 2013

2) PLANNED ACCESS ROADS

*This APD will serve as a request for USFS/BLM to initiate a ROW application for access roads and water haul routes. Please contact us if authorized federal access ROW to this location is not in order, or if USFS/BLM has additional requirements.*

±225' (0.04 miles) – Total new road construction, Sec. 5 T6S R3W – USFS, on lease

A) Running surface width to be ±14' - ±16', total disturbed width to be no more than 30'. Plans for improvement and/or maintenance of existing roads are to maintain in as good or better conditions that at present. A regular maintenance plan will include, but not be limited to blading, ditching, and surfacing.

B) Borrow ditches to be backsloped 3:1 or shallower. Weather permitting, the access road will be mowed and the borrow ditch material will be pulled over the top of the mowed area.

C) Maximum grade will not exceed BLM standards.

D) No culverts are anticipated.

E) Surfacing material, if necessary, to consist of native material from borrow ditches, topsoil will be buried in road crown.

F) No major road cuts are necessary.

G) Fence cuts, gates, and cattleguards will not be required.

H) Road construction on public lands shall meet the minimum standards listed in BLM Manual Section 9113 and shall be constructed under the direction of a qualified construction supervisor(s). The qualified construction supervisor shall be an engineer, company superintendent or other representative who is competent and knowledgeable in oilfield road and drillsite construction, and able to speak for the operator. The dirt contractor, or drilling/completion foremen whose primary expertise is not in construction, do not qualify as construction supervisors.



3) LOCATION OF EXISTING WELLS WITHIN A TWO MILE SECTION

| | |
|---|---|
| Proposed | NONE |
| Drilling | NONE |
| Abandoned | NONE |
| Disposal/Injection | NONE |
| Shut-In | SEE EXHIBIT 2 |
| Producing | NONE |

LOCATION OF EXISTING FACILITIES OPERATED BY VANTAGE

NONE

4) NEW PRODUCTION FACILITIES PROPOSED

A) USFS/BLM will be contacted prior to construction of production facilities. A Sundry Notice (SN) will be filed if requested by BLM.

B) Dimension of Proposed Facility of the pad is ±325' long and ±215' wide, containing ±2.0 acres, with a total well site disturbance of ±2.316 acres. The well access road is ±0.04 miles long with a 30' right-of-way, disturbing ±0.155 acre. New surface disturbance associated with access road and the well pad is estimated to be ±2.741 acres. No pipelines or surface facilities are proposed. See attached plats and Topo Map B.

C) Traveled portion of production site will be gravel surfaced upon completion of production facility installation and prior to production. Site preparation for production will be done with standard excavation equipment using native materials. Additional surface material will be obtained from commercial sources or an approved borrow area. Construction and maintenance will not be performed when the ground or topsoil is frozen or too wet to adequately support construction equipment. If such equipment creates ruts in excess of four (4) inches deep, the soil will be deemed too wet.

D) All above ground permanent structures will be painted to blend with the surrounding landscape. The color used will be as agreed upon with USFS/BLM. To reduce the view of production facilities from visibility corridors and private residences, facilities will not be placed in visually exposed locations (such as ridgelines and hilltops). The tallest structure will be no greater than 22' in height.

E) Production facilities may vary according to actual reservoir discovered and will be engineered upon completion of well tests. Production facilities will be clustered and placed away from cut/fill slopes to allow the maximum recontouring of cut/fill slopes.

F) If well is a producer, all production facilities will be authorized by a SN.

G) No facilities will be constructed off location.

H) Pursuant to Onshore Order No. 7 (OSO #7), this is a request for authorization for reserve pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by BLM and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method will be submitted along with any necessary water analyses, in compliance with OSO #7 as soon as possible, but no later than 45 days after the date of first production. Any method of disposal, which has not been approved prior to the end of the authorized 90-day period, will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by BLM.

5) LOCATION AND TYPE OF WATER SUPPLY

A) Water supply will be from the Ouray Municipal Water Plant at Ouray, Utah, and/or Target Trucking Inc.'s water source in the SW/SW, Sec. 35 T9S R22E, Uintah County, than (State Water Right No. 49-1501). Water will be hauled by a licensed trucking company.

B) If drilling the conductor or surface hole indicates the existence of water bearing zones, Operator will consider drilling a water well on the location to provide a more viable water source. Drilling a water well would reduce truck travel to the well site. No additional disturbance will result from drilling a water well. If a water well is drilled, it would be properly permitted with the Utah Division of Water Rights.

6) SOURCE OF CONSTRUCTION MATERIALS

A) All construction material for these location sites and access roads shall be of native borrow and soil material accumulated during the construction of the location sites and access road. Surface disturbance will be minimized to the extent feasible.

B) All construction materials will come from federal land.

C) No mineral materials will be required.

7) WASTE DISPOSAL

A) Drill cuttings will be buried in reserve pit when dry.

B) Drilling fluid will be evaporated and then buried in the reserve pit when dry. A "Closed Mud System" may be used if technically feasible and available at the time of drilling operations. If so, water may be hauled to and used at another drillsite in the area.

C) Completion fluids will be flowed to the reserve pit and allowed to evaporate.

D) Reserve pit layout is illustrated on Figures 1 and 2



RECEIVED: October 16, 2013

E) Reserve pit will be lined with a synthetic liner 12 mil or thicker. The reserve pit liner shall be made of any manmade synthetic material of sufficient size and qualities to sustain a hydraulic conductivity no greater than 1 x $10^{-7}$ cm/sec after installation and which is sufficiently reinforced to withstand normal wear and tear associated with the installation and pit use thereof. The liner shall be chemically compatible with all substances that may be put into the pit.

F) Reserve pit will be fenced on three sides during drilling operations, and on fourth side at time of rig release. Pit will remain fenced until backfilled.

G) Flare pit for air drilling will (if used) be located minimum 100' from wellbore.

H) Produced fluid will be contained in test tanks during completion and testing.

I) Sewage disposal facilities will be in accordance with State and Local Regulations.

J) Garbage and other waste - solid waste will be contained in a portable trash cage which will be totally enclosed with small mesh wire. Cage and contents will be transported to and trash dumped at a UDEQ approved Sanitary Landfill upon completion of operations.

K) Trash will be contained in trash cage at all times.

L) Upon release of the drilling rig, rathole and mousehole will be filled. Debris and equipment not required for production will be removed.

8) ANCILLARY FACILTIES

No ancillary facilities are proposed.

9) WELLSITE LAYOUT

A) See attached drillsite plat and cut/fill diagram.

B) Roads and well production equipment, such as tanks, treaters, separators, vents, electrical boxes, and equipment associated with pipeline operation, will be placed on location so as to permit maximum interim reclamation of disturbed areas. If equipment is found to interfere with the proper interim reclamation of disturbed areas, the equipment may be moved so proper recontouring and revegetation can occur.

C) 6" of topsoil will be removed prior to location construction from the reserve pit area and/or any other disturbed areas. Topsoil will be stockpiled adjacent to the wellsite within the maximum disturbed area shown on the wellsite plat.

D) Topsoil and spoils pile will be clearly separated as shown on Figure 1.

E) Erosion control measures will be applied pursuant to Vantage's General Permit to Discharge Stormwater under the Utah Pollutant Discharge Elimination System and accompanying Stormwater Pollution Prevention Plan.

F) A "Closed Mud System" may be used if technically feasible and available at the time of drilling operations. If so, the reserve pit will be reduced in size.

10) PIPELINES AND FLOWLINES

*A separate Right-of-Way (ROW) application for the pipeline route will be submitted separately upon successful completion and after consultation with the USFS.*

11) PLANS FOR RECLAMATION OF THE SURFACE:

A) Salvaging and spreading topsoil will not be performed when the ground or topsoil is frozen or too wet to adequately support construction equipment. If such equipment creates ruts in excess of four (4) inches deep, the soil will be deemed too wet.

B) Earthwork for interim and final reclamation must be completed within six (6) months of well completion or plugging (weather permitting).

C) In areas that will not be drill-seeded, the seed mix will be broadcast-seeded at twice the application rate shown and covered 0.25 to 0.5 inches deep with a harrow or drag bar or will be broadcast-seeded into imprints, such as fresh dozer cleat marks.



RECEIVED: October 16, 2013

D) No seeding will occur from May 15 to September 15. Fall seeding is preferred and will be conducted after September 15 and prior to ground freezing. Spring seeding will be conducted after the frost leaves the ground and no later that May 15.

E) Annual or noxious weeds shall be controlled on all disturbed areas as directed by the Field Office Manager. An intensive weed monitoring and control program will be implemented beginning the first growing season after interim and final reclamation. Noxious weeds that have been identified during monitoring will be promptly treated and controlled. A Pesticide Use Proposal (PUP) will be submitted to the USFS/BLM for approval prior to the use of herbicides. All reclamation equipment will be cleaned prior to use to reduce the potential for introduction of noxious weeds or other undesirable non-native species. The operator will coordinate all weed and insect control measures with state and/or local management agencies.

F) Reclaimed areas will be monitored annually. Actions will be taken to ensure that reclamation standards are met as quickly as reasonably practical.

G) Reclamation monitoring will be documented in a reclamation report and submitted to the AO. The report will document compliance with all aspects of the reclamation objectives and standards, identify whether the reclamation objectives and standards are likely to be achieved in the near future without additional actions, and identify actions that have been or will be taken to meet the objectives and standards. The report will also include acreage figures for: Initial Disturbed Acres; Successful Interim Reclaimed Acres; Successful Final Reclaimed Acres. Reports will not be submitted for sites approved by the AO in writing as having met interim or final reclamation standards. Any time 30% or more of a reclaimed area is redisturbed, monitoring will be reinitiated.

H) The AO will be informed when reclamation has been completed, is successful, and the site is ready for final inspection.



INTERIM RESTORATION (Production)

A) Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area, back sloping and contouring all cut/fill slopes. These areas will be re-seeded.

B) Wellpad size will be reduced to minimum size necessary to conduct safe operations. Cut/fills will be reduced to 3:1 or shallower.

C) Reserve pits will be closed and backfilled as soon as the pit contents are dry enough to do so, or no later than the end of the next full summer following rig release, whichever comes first, to allow sufficient time for the pit contents to dry. Reserve pits remaining open after this period will require written authorization of the AO. Immediately upon well completion, any hydrocarbons or trash in the reserve and flare pits will be removed. Pits will be allowed to dry, be pumped dry, or solidified in-situ prior to backfilling.

D) Following completion activities, pit liners will be removed or removed to the solids level and disposed of at an approved landfill, or treated to prevent their reemergence to the surface and interference with long-term successful revegetation. If it was necessary to line the pit with a synthetic liner, the pit will not be trenched (cut) or filled (squeezed) while containing fluids. When dry, the pit will be backfilled with a minimum of five (5) feet of soil material. In relatively flat areas, the pit area will be slightly mounded to allow for settling and to promote surface drainage away from the backfilled pit.

E) The portions of the cleared well site not needed for operational and safety purposes will be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Sufficient level area will remain for setup of a workover rig and to park equipment. In some cases, rig anchors may need to be pulled and reset after recontouring to allow for maximum interim reclamation.

F) Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including road cut/fills and to within a few feet of the production

RECEIVED: October 16, 2013

facilities, unless an all-weather, surfaced, access route or small "teardrop" turnaround is needed on the well pad.

G) Initial seedbed preparation will consist of backfilling, leveling, and ripping all compacted areas. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding. Seeding will be conducted no more than 24 hours following completion of final seedbed preparation. A certified weed-free seed mix designed by USFS/BLM (shown below) to meet reclamation standards will be used. The seed mix will be used on all disturbed surfaces including pipelines and road cut/fill slopes.

H) To help mitigate the contrast of recontoured slopes, reclamation will include measures to feather cleared lines of vegetation and to save and redistribute cleared trees, debris, and rock over recontoured cut/fill slopes.

I) A proposed seed mixture for this location is:

4.80#/acre PLS – Sand bluestem (Elida, Garden)
0.20#/acre PLS – Sand lovegrass (Bend)
1.35#/acre PLS – Switchgrass (Granvillo or Blackwolf)
1.30#/acre PLS – Prairie sandreed (Goshen)
1.60#/acre PLS – Western Wheatgrass (Arriba or Barton)
9.25#/acre PLS – TOTAL

J) Reclamation will be considered successful if the following criteria are met:

· 70 percent of predisturbance cover
· 90 percent dominate species*
· Erosion features equal to or less than surrounding area

The vegetation will consist of species included in the seed mix and/or occurring in the surrounding natural vegetation.



FINAL RESTORATION (P & A – Removal of equipment)

A) Flowlines on location will be removed before site reclamation and all flowlines between the wellsite and production facilities will remain in place and will be filled with water.

B) If necessary to ensure timely revegetation, the pad will be fenced to USFS standards to exclude livestock grazing for the first two growing seasons or until seeded species become firmly established, whichever comes later. Fencing will meet standards found on page 18 of the BLM Gold Book, 4th Edition, or will be fenced with operational electric fencing.

C) Revegetation will be accomplished by planting mixed grasses as specified below. Revegetation is recommended for road area as well as around production site.

D) A proposed seed mixture for this location is:

4.80#/acre PLS – Sand bluestem (Elida, Garden)
0.20#/acre PLS – Sand lovegrass (Bend)
1.35#/acre PLS – Switchgrass (Granvillo or Blackwolf)
1.30#/acre PLS – Prairie sandreed (Goshen)
1.60#/acre PLS – Western Wheatgrass (Arriba or Barton)
9.25#/acre PLS – TOTAL

E) Initial seedbed preparation will consist of backfilling, leveling, and ripping all compacted areas. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding. Seeding will be conducted no more than 24 hours following completion of final seedbed preparation. A certified weed-free seed mix designed by USFS (shown above) to meet reclamation standards will be used. The seed mix will be used on all disturbed surfaces including pipelines and road cut/fill slopes.

F) Distribute topsoil, if any remains, evenly over the location, and seed according to the above seed mixture. If needed the access road and location shall be ripped or disked prior to seeding. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.

RECEIVED: October 16, 2013

G) All disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends indistinguishably with the surrounding landscape. Resalvaged topsoil will be spread evenly over the entire disturbed site to ensure successful revegetation. To help mitigate the contrast of recontoured slopes, reclamation will include measures to feather cleared lines of vegetation and to save and redistribute cleared trees, woody debris, and large rocks over recontoured cut/fill slopes.

12) General Information

A) Project area is situated in the undulated uplands of the western part of the Uintah Basin.

B) Topographic and geologic features - moderate relief area, moderately drained, sand-clay deposition, surrounded by steep uplands with highly eroded drainages.

C) Soil characteristics – clay loam.

D) Flora consists of: Piñon pine, Juniper, Sagebrush, and short grasses. Please refer to archaeological report and botany report to be included in the NEPA document.

E) Fauna – none observed. Please refer to the wildlife report to be included in the NEPA document.

F) Concurrent surface use - grazing and hunting.

G) Mineral Lessor:
Bureau of Land Management, Vernal Field Office
170 South 500 East, Vernal, UT 84078
Phone: 435-781-4400; Fax: 435-781-4410

H) Surface Management Agency:
U.S. Forest Service, Duchesne Ranger District
85 W. Main St., Duchesne, UT 84021
Phone: 435-738-2482; Fax: 435-781-5215

I) Proximity of water, occupied dwellings or other features: un-named intermittent drainage ±300' to the southeast; flowing into Gilsonite Draw.

J) Archaeological, cultural and historical information for the new construction on federal lands will be submitted separately by Montgomery Archaeological Consultants.

K) If any fossils are discovered during construction, the operator shall cease construction immediately and notify the AO so as to determine the significance of the discovery.

L) A Class III (100% pedestrian) cultural resource inventory shall be completed prior to disturbance by a qualified professional archaeologist in the following areas: Well location. A report of the inventory will be submitted and approved by the BLM with stipulations as appropriate in order to comply with EO 11593 and Section 106 of the National Historic Preservation Act of 1966. See Section "General Information – K" above.

M) The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the AO. The AO will inform the operator as to the work needed to determine the following:

- Whether the materials appear eligible for the National Register of Historic Places;
- The mitigation measures the operator will likely have to undertake before the site can be used (assuming in site preservation is not necessary); and,
- A timeframe for the AO to complete an expedited review to acquire the State Historic Preservation Officer's concurrence that the findings of the AO are correct and that mitigation is appropriate.



RECEIVED: October 16, 2013

N) Vantage maintains a file, per 29 CFR 1910.1200(g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances which are used during the course of construction, drilling, completion, and production operations for this project. Hazardous materials (substances) which may be transported across these lands may include drilling mud and cementing products which are primarily inhalation hazards, fuels (flammable and/or combustible), materials that may be necessary for well completion/stimulation activities such as flammable or combustible substances and acids/gels (corrosives). The opportunity for Superfund Amendments and Reauthorization Act (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous substances, EHS, and commercial preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment.

Vantage Energy Uinta LLC
**GDU 63-5-12**
SHL: 760' FNL 1,834' FWL (NE/4 NW/4)
BHL: ±660' FNL ±660' FWL (NW/4 NW/4) Within a 60' Radius
Sec. 5 T6S R3W
Duchesne County, Utah
Federal Lease: UTU78235

APPLICATION FOR PERMIT TO DRILL
OPERATOR CERTIFICATION

LESSEE'S OR OPERATOR'S REPRESENTATIVE:

Operator
Vantage Energy Uinta LLC
116 Inverness Drive East, Suite 107
Englewood, CO 80112
Phone: 303-386-8600

John Moran – Senior Drilling Engineer
Michael Holland – Senior Landman

Upstream Petroleum Management, Inc.
7000 S. Yosemite St., Suite 290B
Englewood, Colorado 80112
Phone: 303-942-0506

*+ Andrea Gross – Permit Agent
*agross@upstreampm.com*
*+ Kimberly Rodell – Permit Agent
*krodell@upstreampm.com*

Field Office:
Vantage Energy Uinta LLC
116 Inverness Drive East, Suite 107
Englewood, CO 80112
Phone: 303-386-8600



* Contact to arrange onsite meeting.
\+ For any questions or comments regarding this permit.

OPERATOR CERTIFICATION:

I hereby certify that Vantage Energy Uinta LLC and its contractors and sub-contractors are responsible for the operations conducted under this application subject to the terms and conditions of the mineral lease. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Vantage Energy Uinta LLC under their nationwide bond, BLM Bond No. UTB000288.

RECEIVED: October 16, 2013

OPERATOR CERTIFICATION
GDU 63-5-11

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

October 14, 2013

Kimberly J. Rodell
Permit Agent for Vantage Energy Uinta LLC



RECEIVED: October 16, 2013

API Well Number: 43013525620000

Upstream
Petroleum Management, Inc.

7000 S. Yosemite St., Suite 290B
Englewood, CO 80112
phone 303.942.0506
www.upstreampm.com

Ms. Diana Mason
State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114

October 15, 2013

Re: Directional Drilling R649-3-11
Vantage Energy Uinta, LLC
**GDU 63-5-12**
SHL: 760' FNL 1,834' FWL (NE/4 NW/4)
BHL: ±660' FNL ±1,980' FWL (NE/4 NW/4)
Sec. 5 T6S R3W
Duchesne County, Utah
Surface: Federal
Mineral: Federal Mineral Lease UTU78235



Dear Ms. Mason:

Pursuant to the filing of Vantage Energy Uinta, LLC's (Vantage) for Application for Permit to Drill regarding the above referenced well on October 15, 2013, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11, pertaining to the Exception of Location and Sitting of Wells.

- GDU 63-5-12 is located within the federal unit named Gilsonite Draw, Unit No. UTU86249X.
- Vantage is permitting this well as stipulated by the United States Forest Service as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Vantage will be able to utilize any proposed roads and or pipelines in the area.
- Furthermore, Vantage is the unit operator and sole working interest owner within 460' of the entire directional wellbore.

Therefore, based on the above stated information, Vantage requests the permit be granted pursuant to R649-3-11.

Sincerely,

Andrea Gross

Andrea J. Gross
Permit Agent for Vantage Energy Uinta, LLC.

API Well Number: 43013525620000

# Vantage Energy Uinta LLC

LOCATION LAYOUT FOR

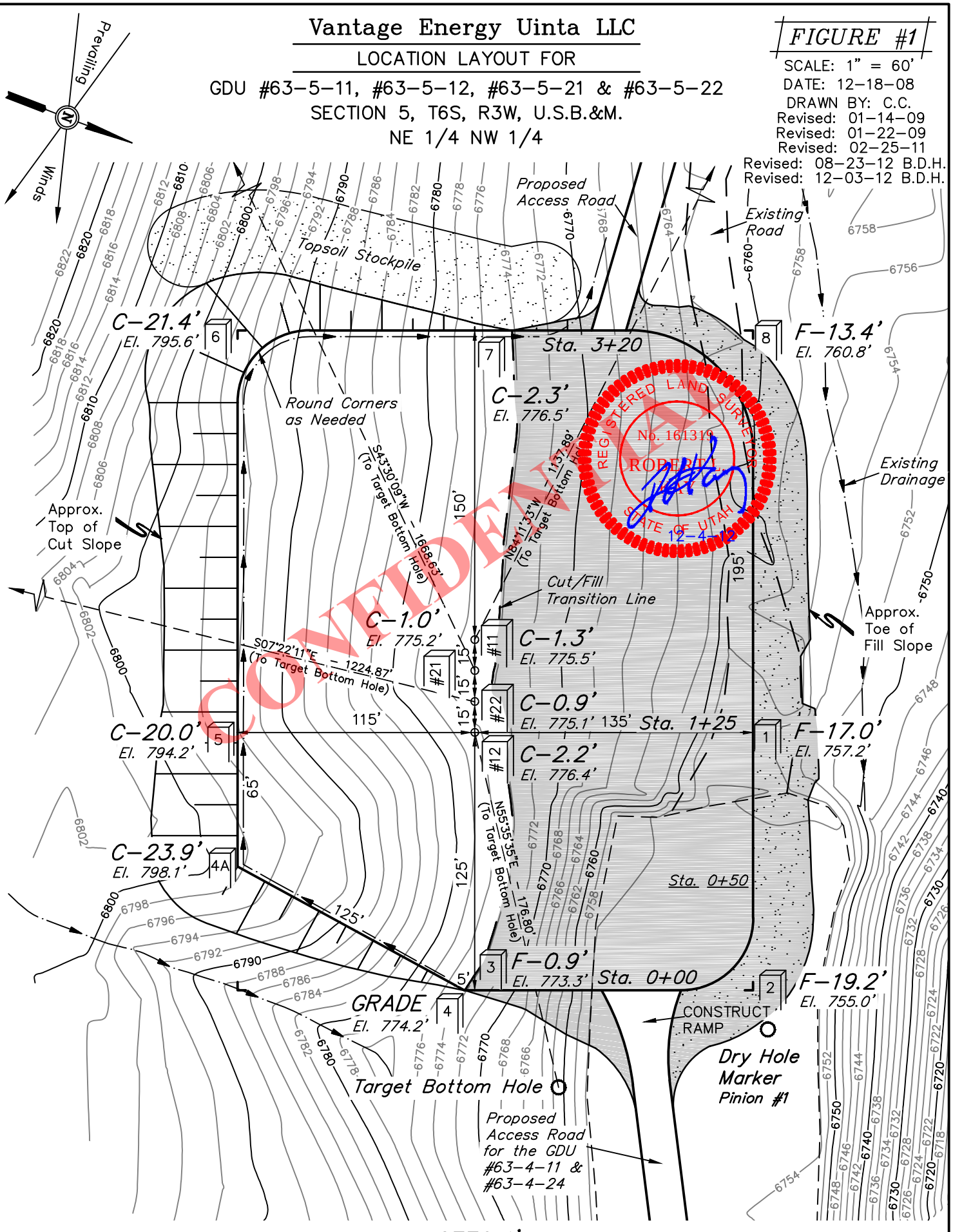
GDU #63-5-11, #63-5-12, #63-5-21 & #63-5-22

SECTION 5, T6S, R3W, U.S.B.&M.

NE 1/4 NW 1/4

**FIGURE #1**

SCALE: 1" = 60'
DATE: 12-18-08
DRAWN BY: C.C.
Revised: 01-14-09
Revised: 01-22-09
Revised: 02-25-11
Revised: 08-23-12 B.D.H.
Revised: 12-03-12 B.D.H.






Elev. Ungraded Ground At Loc. Stake GDU #63-5-12 = 6776.4'

FINISHED GRADE ELEV. AT LOC. STAKE GDU #63-5-12 = 6774.2'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: October 15, 2013

API Well Number: 43013525620000

# Vantage Energy Uinta LLC

## TYPICAL CROSS SECTIONS FOR

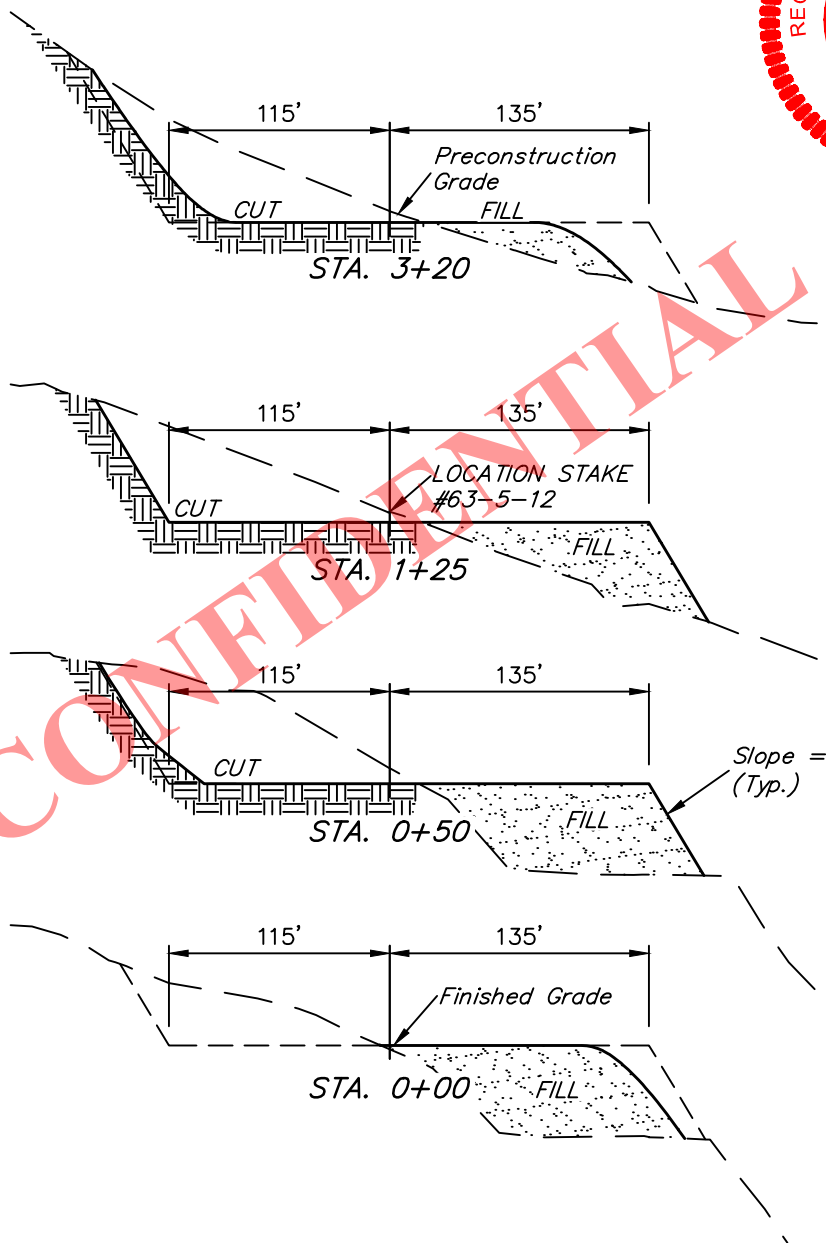
GDU #63-5-11, #63-5-12, #63-5-21 & #63-5-22
SECTION 5, T6S, R3W, U.S.B.&M.
NE 1/4 NW 1/4

FIGURE #2

1" = 20'
X-Section Scale
1" = 50'

DATE: 12-18-08
DRAWN BY: C.C.
Revised: 01-14-09
Revised: 01-22-09
Revised: 02-25-11
Rev.: 08-23-12 B.D.H.
Rev.: 12-03-12 B.D.H.

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH
12-4-12






NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

*APPROXIMATE ACREAGES*

*WELL SITE DISTURBANCE = ± 2.586 ACRES*
*ACCESS ROAD DISTURBANCE = ± 0.192 ACRES*
*TOTAL = ± 2.778 ACRES*

* *NOTE:*
*FILL QUANTITY INCLUDES 5% FOR COMPACTION*

## APPROXIMATE YARDAGES

(6") Topsoil Stripping = *1,970* Cu. Yds.
Remaining Location = *18,840* Cu. Yds.
TOTAL CUT = *20,810* CU. YDS.
FILL = *18,840* CU. YDS.

EXCESS MATERIAL = *1,970* Cu. Yds.
Topsoil = *1,970* Cu. Yds.

EXCESS UNBALANCE = *0* Cu. Yds.
(After Interim Rehabilitation)

*UINTAH ENGINEERING & LAND SURVEYING*
*85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017*

RECEIVED: October 15, 2013

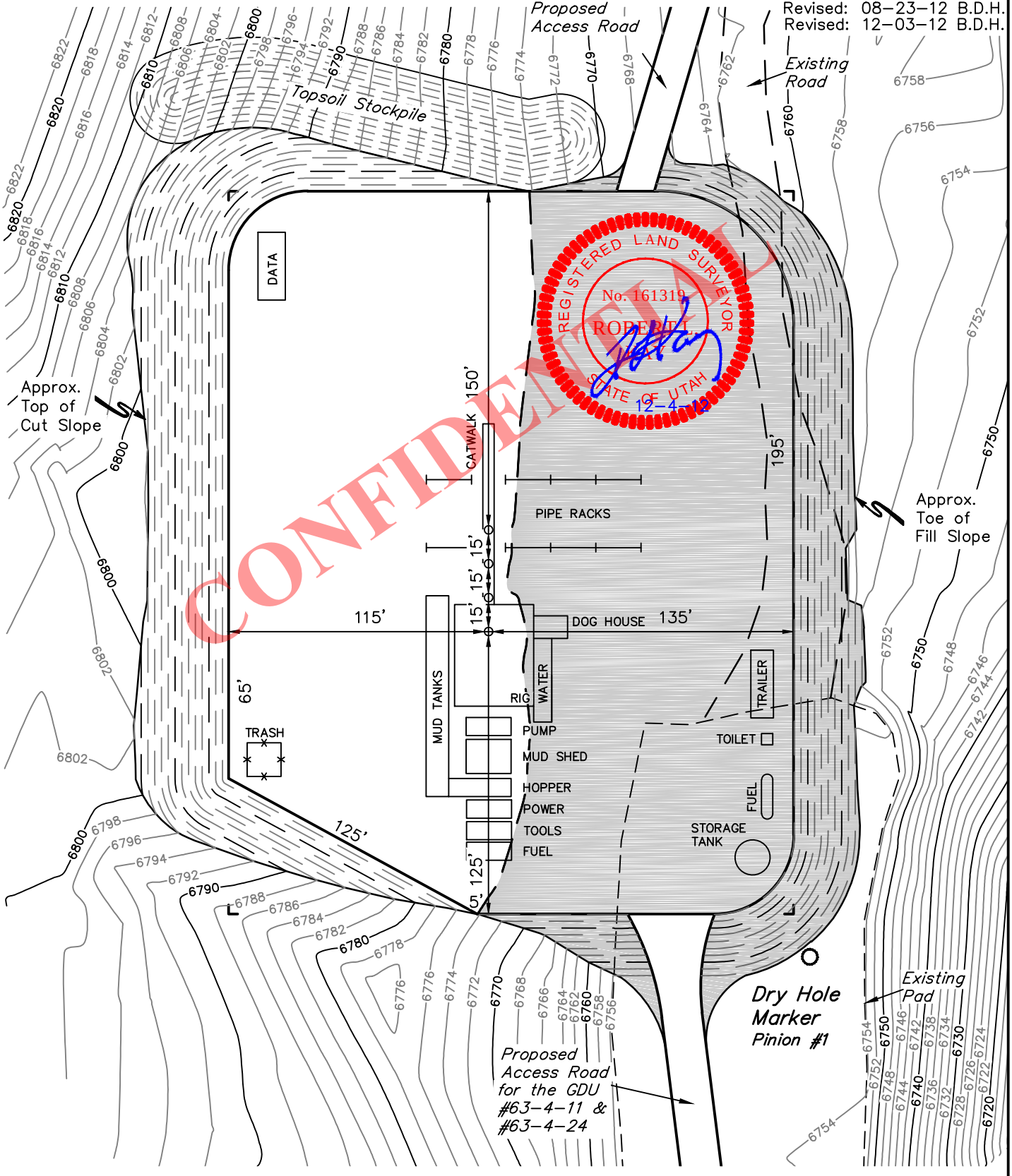
# Vantage Energy Uinta LLC

## TYPICAL RIG LAYOUT FOR

GDU #63-5-11, #63-5-12, #63-5-21 & #63-5-22
SECTION 5, T6S, R3W, U.S.B.&M.
NE 1/4 NW 1/4

**FIGURE #3**

SCALE: 1" = 60'
DATE: 12-18-08
DRAWN BY: C.C.
Revised: 01-14-09
Revised: 01-22-09
Revised: 02-25-11
Revised: 08-23-12 B.D.H.
Revised: 12-03-12 B.D.H.




UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: October 15, 2013

API Well Number: 43013525620000

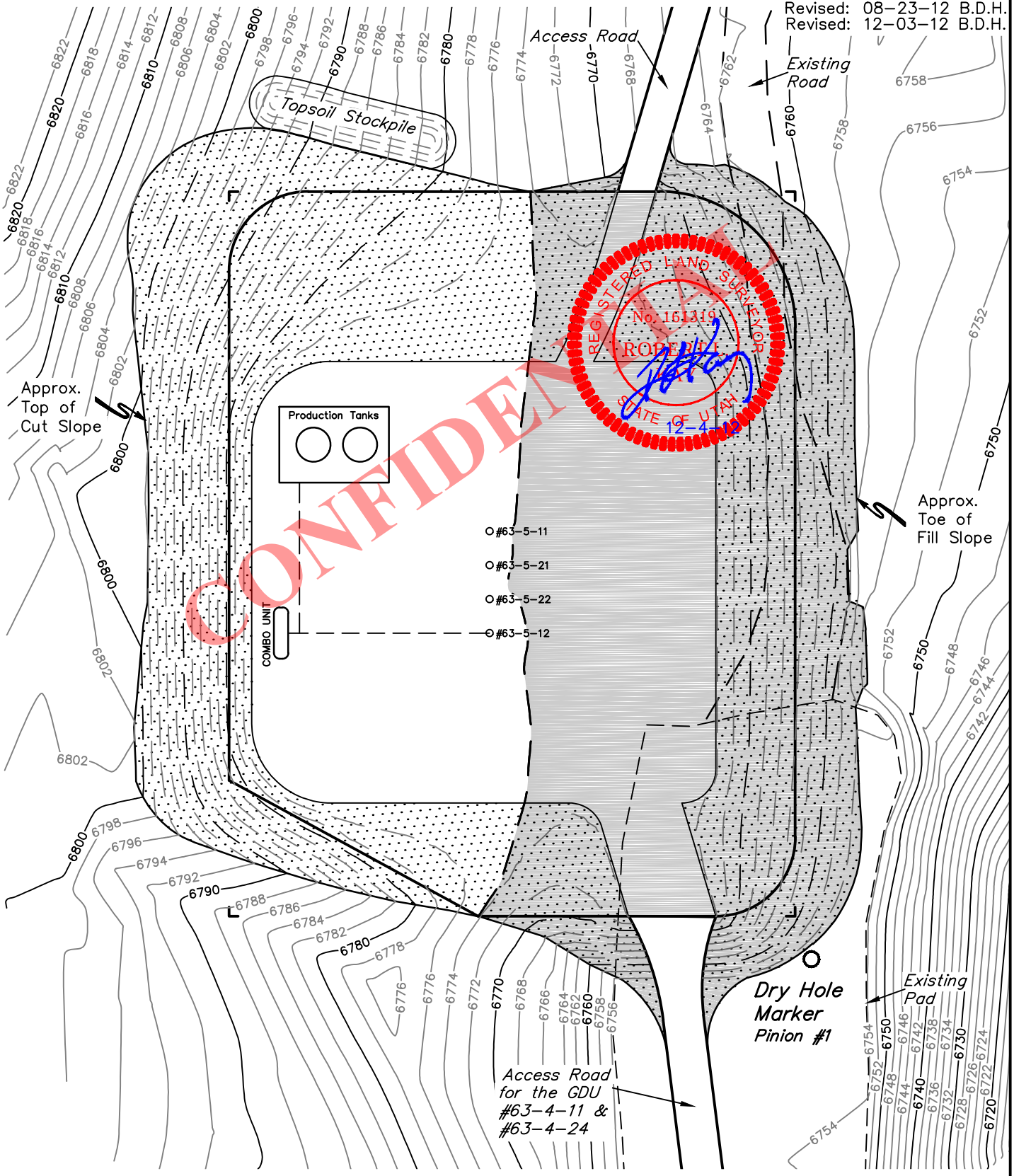
# Vantage Energy Uinta LLC

## PRODUCTION FACILITY LAYOUT FOR

GDU #63-5-11, #63-5-12, #63-5-21 & #63-5-22
SECTION 5, T6S, R3W, U.S.B.&M.
NE 1/4 NW 1/4

*FIGURE #4*

SCALE: 1" = 60'
DATE: 12-18-08
DRAWN BY: C.C.
Revised: 01-14-09
Revised: 01-22-09
Revised: 02-25-11
Revised: 08-23-12 B.D.H.
Revised: 12-03-12 B.D.H.




RECLAIMED AREA

*APPROXIMATE ACREAGES*
*UN-RECLAIMED = ± 0.997 ACRES*


*UINTAH ENGINEERING & LAND SURVEYING*
*85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017*



RECEIVED: October 15, 2013

Weatherford®

# Drilling Services

# Proposal

VANTAGE ENERGY

# VANTAGE ENERGY

GDU 63-5-12
FILE: PLAN 1
MARCH 1, 2011



**Weatherford International Ltd.**
410 17th Street
Denver, Colorado 80202
+1.303.825.6558 Main
+1.303.825.2927 Fax
www.weatherford.com

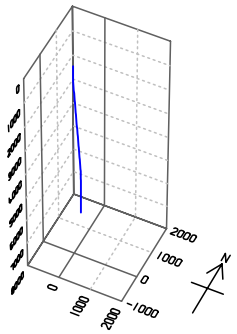
RECEIVED: October 16, 2013

API Well Number: 43013525620000

VANTAGE ENERGY

Project: DUCHESNE COUNTY, UT
Site: GDU 63-5-12
Well: GDU #63-5-12
Wellbore: GDU #63-5-12
Design: Design #1
Latitude: 39° 59' 37.820 N
Longitude: 110° 14' 59.190 W
GL: 6773.00
KB: WELL @ 6788.00ft (Original Well Elev)
RIG: Original Well Elev

Weatherford



**WELL DETAILS: GDU #63-5-12**

Ground Level: 6773.00

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Slot |
|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 7168927.39 | 1990669.44 | 39° 59' 37.820 N | 110° 14' 59.190 W | |

**WELLBORE TARGET DETAILS (LAT/LONG)**

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude | Shape |
|---|---|---|---|---|---|---|
| PBHL GDU #63-5-12 | 6200.00 | 90.05 | 176.66 | 39° 59' 38.710 N | 110° 14' 56.920 W | Point |

**SECTION DETAILS**

| MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Annotation |
|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Start Build 1.50 |
| 699.09 | 2.99 | 62.99 | 699.00 | 2.36 | 4.62 | 1.50 | 62.99 | 5.19 | Start 3606.90 hold at 699.09 MD |
| 4305.99 | 2.99 | 62.99 | 4301.00 | 87.70 | 172.04 | 0.00 | 0.00 | 193.10 | Start Drop -1.50 |
| 4505.08 | 0.00 | 0.00 | 4500.00 | 90.05 | 176.66 | 1.50 | 180.00 | 198.28 | Start 1700.00 hold at 4505.08 MD |
| 6205.08 | 0.00 | 0.00 | 6200.00 | 90.05 | 176.66 | 0.00 | 0.00 | 198.28 | TD at 6205.08 |

**FORMATION TOP DETAILS**

| TVDPath | MDPath | Formation |
|---|---|---|
| 3491.00 | 3494.89 | Garden Gulch |
| 4428.00 | 4433.07 | Douglas Creek |
| 5313.00 | 5318.08 | Castle Peak |
| 5788.00 | 5793.08 | Uteland Butte |
| 5998.00 | 6003.08 | Wasatch |

**CASING DETAILS**

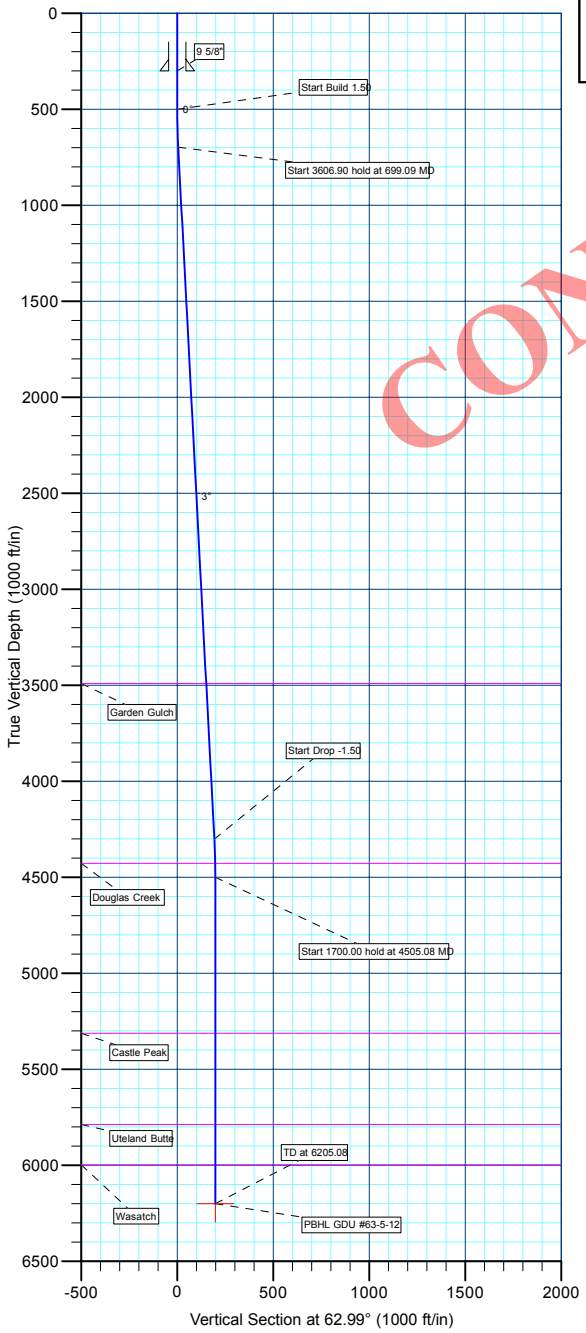
| TVD | MD | Name | Size |
|---|---|---|---|
| 300.00 | 300.00 | 9 5/8" | 9-5/8 |

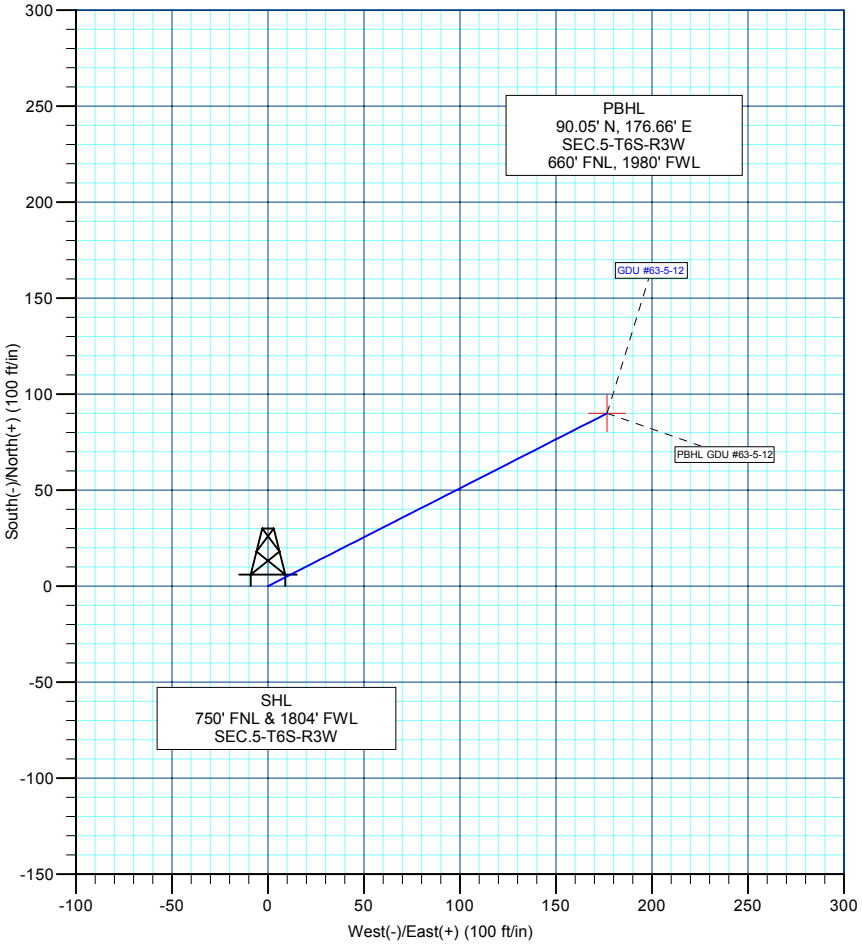
T M

Azimuths to True North
Magnetic North: 11.45°

Magnetic Field
Strength: 52207.4snT
Dip Angle: 65.74°
Date: 3/1/2011
Model: BGGM2010






Plan: Design #1 (GDU #63-5-12/GDU #63-5-12)

Created By: TRACY WILLIAMS Date: 11:12, March 01 2011

VANTAGE ENERGY

# VANTAGE ENERGY

**DUCHESNE COUNTY, UT**
**GDU 63-5-12**
**GDU #63-5-12**

**GDU #63-5-12**

**Plan: Design #1**



# Standard Planning Report

**01 March, 2011**

Weatherford®

RECEIVED: October 16, 2013

VANTAGE ENERGY

# Weatherford International Ltd.

Planning Report

Weatherford

| | | | |
|---|---|---|---|
| **Database:** | EDM 2003.21 Single User Db | **Local Co-ordinate Reference:** | Well GDU #63-5-12 |
| **Company:** | VANTAGE ENERGY | **TVD Reference:** | WELL @ 6788.00ft (Original Well Elev) |
| **Project:** | DUCHESNE COUNTY, UT | **MD Reference:** | WELL @ 6788.00ft (Original Well Elev) |
| **Site:** | GDU 63-5-12 | **North Reference:** | True |
| **Well:** | GDU #63-5-12 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | GDU #63-5-12 | | |
| **Design:** | Design #1 | | |

**Project** DUCHESNE COUNTY, UT

| | | | |
|---|---|---|---|
| **Map System:** | US State Plane 1983 | **System Datum:** | Mean Sea Level |
| **Geo Datum:** | North American Datum 1983 | | |
| **Map Zone:** | Utah Central Zone | | |

**Site** GDU 63-5-12

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 7,168,927.39 ft | **Latitude:** | 39° 59' 37.820 N |
| **From:** | Lat/Long | **Easting:** | 1,990,669.44 ft | **Longitude:** | 110° 14' 59.190 W |
| **Position Uncertainty:** | 0.00 ft | **Slot Radius:** | " | **Grid Convergence:** | 0.80 ° |

**Well** GDU #63-5-12

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 0.00 ft | **Northing:** | 7,168,927.39 ft | **Latitude:** | 39° 59' 37.820 N |
| | **+E/-W** | 0.00 ft | **Easting:** | 1,990,669.44 ft | **Longitude:** | 110° 14' 59.190 W |
| **Position Uncertainty** | | 0.00 ft | **Wellhead Elevation:** | ft | **Ground Level:** | 6,773.00 ft |

**Wellbore** GDU #63-5-12

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | BGGM2010 | 3/1/2011 | 11.45 | 65.74 | 52,207 |

**Design** Design #1

**Audit Notes:**

| | | | | |
|---|---|---|---|---|
| **Version:** | **Phase:** | PLAN | **Tie On Depth:** | 0.00 |

| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
|---|---|---|---|---|
| | 0.00 | 0.00 | 0.00 | 62.99 |

**Plan Sections**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 699.09 | 2.99 | 62.99 | 699.00 | 2.36 | 4.62 | 1.50 | 1.50 | 0.00 | 62.99 | |
| 4,305.99 | 2.99 | 62.99 | 4,301.00 | 87.70 | 172.04 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,505.08 | 0.00 | 0.00 | 4,500.00 | 90.05 | 176.66 | 1.50 | -1.50 | 0.00 | 180.00 | |
| 6,205.08 | 0.00 | 0.00 | 6,200.00 | 90.05 | 176.66 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL GDU #63-5-1 |

VANTAGE ENERGY

# Weatherford International Ltd.

## Planning Report

Weatherford

| | | | |
|---|---|---|---|
| **Database:** | EDM 2003.21 Single User Db | **Local Co-ordinate Reference:** | Well GDU #63-5-12 |
| **Company:** | VANTAGE ENERGY | **TVD Reference:** | WELL @ 6788.00ft (Original Well Elev) |
| **Project:** | DUCHESNE COUNTY, UT | **MD Reference:** | WELL @ 6788.00ft (Original Well Elev) |
| **Site:** | GDU 63-5-12 | **North Reference:** | True |
| **Well:** | GDU #63-5-12 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | GDU #63-5-12 | | |
| **Design:** | Design #1 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **9 5/8"** | | | | | | | | | |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **Start Build 1.50** | | | | | | | | | |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 600.00 | 1.50 | 62.99 | 599.99 | 0.59 | 1.17 | 1.31 | 1.50 | 1.50 | 0.00 |
| **Start 3606.90 hold at 699.09 MD** | | | | | | | | | |
| 699.09 | 2.99 | 62.99 | 699.00 | 2.36 | 4.62 | 5.19 | 1.50 | 1.50 | 0.00 |
| 800.00 | 2.99 | 62.99 | 799.77 | 4.74 | 9.31 | 10.44 | 0.00 | 0.00 | 0.00 |
| 900.00 | 2.99 | 62.99 | 899.64 | 7.11 | 13.95 | 15.65 | 0.00 | 0.00 | 0.00 |
| 1,000.00 | 2.99 | 62.99 | 999.50 | 9.48 | 18.59 | 20.86 | 0.00 | 0.00 | 0.00 |
| 1,100.00 | 2.99 | 62.99 | 1,099.37 | 11.84 | 23.23 | 26.07 | 0.00 | 0.00 | 0.00 |
| 1,200.00 | 2.99 | 62.99 | 1,199.23 | 14.21 | 27.87 | 31.28 | 0.00 | 0.00 | 0.00 |
| 1,300.00 | 2.99 | 62.99 | 1,299.09 | 16.57 | 32.51 | 36.49 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 2.99 | 62.99 | 1,398.96 | 18.94 | 37.15 | 41.70 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 2.99 | 62.99 | 1,498.82 | 21.31 | 41.80 | 46.91 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 2.99 | 62.99 | 1,598.69 | 23.67 | 46.44 | 52.12 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 2.99 | 62.99 | 1,698.55 | 26.04 | 51.08 | 57.33 | 0.00 | 0.00 | 0.00 |
| 1,800.00 | 2.99 | 62.99 | 1,798.41 | 28.40 | 55.72 | 62.54 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 2.99 | 62.99 | 1,898.28 | 30.77 | 60.36 | 67.75 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 2.99 | 62.99 | 1,998.14 | 33.14 | 65.00 | 72.96 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 2.99 | 62.99 | 2,098.01 | 35.50 | 69.64 | 78.17 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 2.99 | 62.99 | 2,197.87 | 37.87 | 74.29 | 83.38 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 2.99 | 62.99 | 2,297.74 | 40.23 | 78.93 | 88.59 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 2.99 | 62.99 | 2,397.60 | 42.60 | 83.57 | 93.80 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 2.99 | 62.99 | 2,497.46 | 44.97 | 88.21 | 99.01 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 2.99 | 62.99 | 2,597.33 | 47.33 | 92.85 | 104.22 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 2.99 | 62.99 | 2,697.19 | 49.70 | 97.49 | 109.43 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 2.99 | 62.99 | 2,797.06 | 52.06 | 102.13 | 114.64 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 2.99 | 62.99 | 2,896.92 | 54.43 | 106.78 | 119.85 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 2.99 | 62.99 | 2,996.79 | 56.80 | 111.42 | 125.06 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 2.99 | 62.99 | 3,096.65 | 59.16 | 116.06 | 130.27 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 2.99 | 62.99 | 3,196.51 | 61.53 | 120.70 | 135.48 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 2.99 | 62.99 | 3,296.38 | 63.89 | 125.34 | 140.69 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 2.99 | 62.99 | 3,396.24 | 66.26 | 129.98 | 145.90 | 0.00 | 0.00 | 0.00 |
| **Garden Gulch** | | | | | | | | | |
| 3,494.89 | 2.99 | 62.99 | 3,491.00 | 68.50 | 134.39 | 150.84 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 2.99 | 62.99 | 3,496.11 | 68.63 | 134.63 | 151.11 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 2.99 | 62.99 | 3,595.97 | 70.99 | 139.27 | 156.32 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 2.99 | 62.99 | 3,695.83 | 73.36 | 143.91 | 161.53 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 2.99 | 62.99 | 3,795.70 | 75.72 | 148.55 | 166.74 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 2.99 | 62.99 | 3,895.56 | 78.09 | 153.19 | 171.95 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 2.99 | 62.99 | 3,995.43 | 80.46 | 157.83 | 177.16 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 2.99 | 62.99 | 4,095.29 | 82.82 | 162.47 | 182.37 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 2.99 | 62.99 | 4,195.16 | 85.19 | 167.12 | 187.58 | 0.00 | 0.00 | 0.00 |
| **Start Drop -1.50** | | | | | | | | | |
| 4,305.99 | 2.99 | 62.99 | 4,301.00 | 87.70 | 172.04 | 193.10 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 1.58 | 62.99 | 4,394.93 | 89.40 | 175.37 | 196.84 | 1.50 | -1.50 | 0.00 |
| **Douglas Creek** | | | | | | | | | |
| 4,433.07 | 1.08 | 62.99 | 4,428.00 | 89.74 | 176.05 | 197.61 | 1.50 | -1.50 | 0.00 |

VANTAGE ENERGY

# Weatherford International Ltd.

Planning Report

Weatherford

| | | | |
|---|---|---|---|
| **Database:** | EDM 2003.21 Single User Db | **Local Co-ordinate Reference:** | Well GDU #63-5-12 |
| **Company:** | VANTAGE ENERGY | **TVD Reference:** | WELL @ 6788.00ft (Original Well Elev) |
| **Project:** | DUCHESNE COUNTY, UT | **MD Reference:** | WELL @ 6788.00ft (Original Well Elev) |
| **Site:** | GDU 63-5-12 | **North Reference:** | True |
| **Well:** | GDU #63-5-12 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | GDU #63-5-12 | | |
| **Design:** | Design #1 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| **Start 1700.00 hold at 4505.08 MD** | | | | | | | | | |
| 4,505.08 | 0.00 | 0.00 | 4,500.00 | 90.05 | 176.66 | 198.28 | 1.50 | -1.50 | 0.00 |
| 4,600.00 | 0.00 | 0.00 | 4,594.92 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 0.00 | 0.00 | 4,694.92 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 0.00 | 0.00 | 4,794.92 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 0.00 | 0.00 | 4,894.92 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 0.00 | 0.00 | 4,994.92 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 0.00 | 0.00 | 5,094.92 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 0.00 | 0.00 | 5,194.92 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 0.00 | 0.00 | 5,294.92 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |
| **Castle Peak** | | | | | | | | | |
| 5,318.08 | 0.00 | 0.00 | 5,313.00 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 0.00 | 0.00 | 5,394.92 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 0.00 | 0.00 | 5,494.92 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 0.00 | 0.00 | 5,594.92 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 0.00 | 0.00 | 5,694.92 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |
| **Uteland Butte** | | | | | | | | | |
| 5,793.08 | 0.00 | 0.00 | 5,788.00 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 0.00 | 0.00 | 5,794.92 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 0.00 | 0.00 | 5,894.92 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 0.00 | 0.00 | 5,994.92 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |
| **Wasatch** | | | | | | | | | |
| 6,003.08 | 0.00 | 0.00 | 5,998.00 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 0.00 | 0.00 | 6,094.92 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |
| 6,205.08 | 0.00 | 0.00 | 6,200.00 | 90.05 | 176.66 | 198.28 | 0.00 | 0.00 | 0.00 |



**Design Targets**

| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| PBHL GDU #63-5-12<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 6,200.00 | 90.05 | 176.66 | 7,169,019.90 | 1,990,844.82 | 39° 59' 38.710 N | 110° 14' 56.920 W |

**Casing Points**

| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") |
|---|---|---|---|---|
| 300.00 | 300.00 | 9 5/8" | 9-5/8 | 12-1/4 |

VANTAGE ENERGY

# Weatherford International Ltd.

Planning Report

Weatherford

| | | | |
|---|---|---|---|
| **Database:** | EDM 2003.21 Single User Db | **Local Co-ordinate Reference:** | Well GDU #63-5-12 |
| **Company:** | VANTAGE ENERGY | **TVD Reference:** | WELL @ 6788.00ft (Original Well Elev) |
| **Project:** | DUCHESNE COUNTY, UT | **MD Reference:** | WELL @ 6788.00ft (Original Well Elev) |
| **Site:** | GDU 63-5-12 | **North Reference:** | True |
| **Well:** | GDU #63-5-12 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | GDU #63-5-12 | | |
| **Design:** | Design #1 | | |

## Formations

| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---|---|---|---|---|---|
| 3,494.89 | 3,491.00 | Garden Gulch | | 0.00 | |
| 4,433.07 | 4,428.00 | Douglas Creek | | 0.00 | |
| 5,318.08 | 5,313.00 | Castle Peak | | 0.00 | |
| 5,793.08 | 5,788.00 | Uteland Butte | | 0.00 | |
| 6,003.08 | 5,998.00 | Wasatch | | 0.00 | |

## Plan Annotations

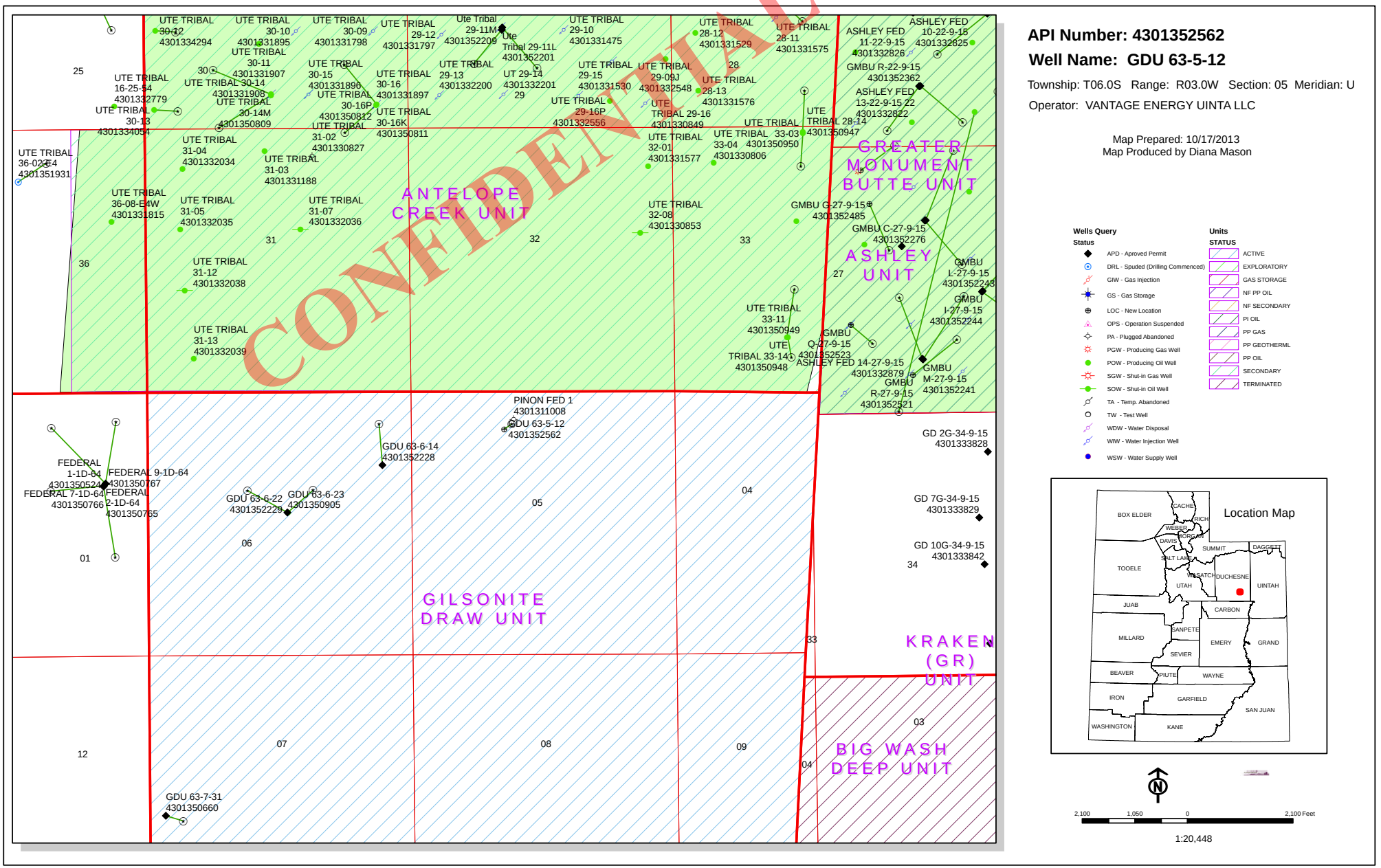
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates +N/-S (ft) | Local Coordinates +E/-W (ft) | Comment |
|---|---|---|---|---|
| 500.00 | 500.00 | 0.00 | 0.00 | Start Build 1.50 |
| 699.09 | 699.00 | 2.36 | 4.62 | Start 3606.90 hold at 699.09 MD |
| 4,305.99 | 4,301.00 | 87.70 | 172.04 | Start Drop -1.50 |
| 4,505.08 | 4,500.00 | 90.05 | 176.66 | Start 1700.00 hold at 4505.08 MD |
| 6,205.08 | 6,200.00 | 90.05 | 176.66 | TD at 6205.08 |





RECEIVED: October 16, 2013

API Well Number: 43013525620000




**API Number: 4301352562**

**Well Name: GDU 63-5-12**

Township: T06.0S Range: R03.0W Section: 05 Meridian: U

Operator: VANTAGE ENERGY UINTA LLC

Map Prepared: 10/17/2013
Map Produced by Diana Mason

**Wells Query**

**Status**

- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well

**Units**

**STATUS**

- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED




2,100 1,050 0 2,100 Feet

1:20,448

RECEIVED: October 17, 2013

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

**Utah State Office**
**440 West 200 South, Suite 500**
**Salt Lake City, UT 84101**

**IN REPLY REFER TO:**
**3160**
**(UT-922)**

October 22, 2013

Memorandum

To: Assistant Field Office Manager Minerals,
Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2013 Plan of Development Gilsonite Draw Unit,
Duchesne County, Utah.



Pursuant to email between Diana Mason, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2013 within the Gilsonite Draw Unit, Duchesne County, Utah.

| API # | WELL NAME | LOCATION |
|---|---|---|
| (Proposed PZ Green River) | | |
| 43-013-52562 | GDU 63-5-12 | Sec 05 T06S R03W 0760 FNL 1834 FWL<br>BHL Sec 05 T06S R03W 0660 FNL 1980 FWL |

This office has no objection to permitting the well at this time.

Michael Coulthard

Digitally signed by Michael Coulthard
DN: cn=Michael Coulthard, o=Bureau of Land Management, ou=Division of Minerals, email=mcoultha@blm.gov, c=US
Date: 2013.10.22 15:37:13 -06'00'

bcc: File - Gilsonite Draw Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:10-22-13

RECEIVED: October 22, 2013

# WORKSHEET
# APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 10/15/2013
**API NO. ASSIGNED:** 43013525620000
**WELL NAME:** GDU 63-5-12
**OPERATOR:** VANTAGE ENERGY UINTA LLC (N3295)
**PHONE NUMBER:** 303 941-0506
**CONTACT:** Andrea Gross

**PROPOSED LOCATION:** NENW 05 060S 030W
**Permit Tech Review:** ☑

**SURFACE:** 0760 FNL 1834 FWL
**Engineering Review:** ☐

**BOTTOM:** 0660 FNL 1980 FWL
**Geology Review:** ☑

**COUNTY:** DUCHESNE
**LATITUDE:** 39.99381
**LONGITUDE:** -110.24955
**UTM SURF EASTINGS:** 564064.00
**NORTHINGS:** 4427339.00
**FIELD NAME:** UNDESIGNATED
**LEASE TYPE:** 1 - Federal
**LEASE NUMBER:** UTU78235
**PROPOSED PRODUCING FORMATION(S):** WASATCH
**SURFACE OWNER:** 1 - Federal
**COALBED METHANE:** NO



**RECEIVED AND/OR REVIEWED:**

- ☑ **PLAT**
- ☑ **Bond:** FEDERAL - UTB000288
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** 49-1501
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

**Commingling Approved**

**LOCATION AND SITING:**

- ☐ **R649-2-3.**

**Unit:** GILSONITE DRAW

- ☐ **R649-3-2. General**
- ☑ **R649-3-3. Exception**
- ☑ **Drilling Unit**

**Board Cause No:** R649-3-11
**Effective Date:**
**Siting:**

- ☑ **R649-3-11. Directional Drill**

**Comments:** Presite Completed

**Stipulations:**
1 - Exception Location - bhill
4 - Federal Approval - dmason
15 - Directional - dmason
23 - Spacing - dmason

RECEIVED: October 24, 2013

GARY R. HERBERT
*Governor*
SPENCER J. COX
*Lieutenant Governor*

# State of Utah
**DEPARTMENT OF NATURAL RESOURCES**
MICHAEL R. STYLER
*Executive Director*
**Division of Oil, Gas and Mining**
JOHN R. BAZA
*Division Director*

# Permit To Drill
**********

**Well Name:** GDU 63-5-12
**API Well Number:** 43013525620000
**Lease Number:** UTU78235
**Surface Owner:** FEDERAL
**Approval Date:** 10/24/2013

**Issued to:**
VANTAGE ENERGY UINTA LLC, 116 Inverness Drive East, Ste 107, Englewood , CO 80112

**Authority:**
Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-11. The expected producing formation or pool is the WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

**Exception Location:**
Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

**General:**
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**Conditions of Approval:**
State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the “Board”). In order to avoid the possibility of waste or injury to

correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

**Notification Requirements:**
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284
  (please leave a voicemail message if not available)
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
  at http://oilgas.ogm.utah.gov

**Reporting Requirements:**
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

**Approved By:**

For John Rogers
Associate Director, Oil & Gas

# STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

**5.LEASE DESIGNATION AND SERIAL NUMBER:** UTU78235

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

**7.UNIT or CA AGREEMENT NAME:** GILSONITE DRAW

**1. TYPE OF WELL** Gas Well

**8. WELL NAME and NUMBER:** GDU 63-5-12

**2. NAME OF OPERATOR:** VANTAGE ENERGY UINTA LLC

**9. API NUMBER:** 43013525620000

**3. ADDRESS OF OPERATOR:** 116 Inverness Drive East, Ste 107 , Englewood , CO, 80112

**PHONE NUMBER:** 303 386-8600 Ext

**9. FIELD and POOL or WILDCAT:** UNDESIGNATED

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:** 0760 FNL 1834 FWL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: NENW Section: 05 Township: 06.0S Range: 03.0W Meridian: U

**COUNTY:** DUCHESNE

**STATE:** UTAH

**11.** CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ✓ NOTICE OF INTENT<br>Approximate date work will start: 11/22/2014 | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| ☐ SUBSEQUENT REPORT<br>Date of Work Completion: | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| | ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| ☐ SPUD REPORT<br>Date of Spud: | ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| ☐ DRILLING REPORT<br>Report Date: | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ✓ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**

Vantage Energy Uinta LLC is submitting this Sundry Notice to request an extension to the Application for Permit to Drill for the maximum time allowed. Thank you.

Approved by the Utah Division of Oil, Gas and Mining
October 27, 2014
Date:
By:

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Andrea Gross | 303 941-0506 | Project Coordinator |
| **SIGNATURE** N/A | | **DATE** 10/27/2014 |

RECEIVED: Oct. 27, 2014


**The Utah Division of Oil, Gas, and Mining**

**- State of Utah**
**- Department of Natural Resources**

**Electronic Permitting System - Sundry Notices**

## Request for Permit Extension Validation Well Number 43013525620000

**API:** 43013525620000
**Well Name:** GDU 63-5-12
**Location:** 0760 FNL 1834 FWL QTR NENW SEC 05 TWNP 060S RNG 030W MER U
**Company Permit Issued to:** VANTAGE ENERGY UINTA LLC
**Date Original Permit Issued:** 10/24/2013

**The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.**

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

**Signature:** Andrea Gross **Date:** 10/27/2014
**Title:** Project Coordinator **Representing:** VANTAGE ENERGY UINTA LLC

RECEIVED: Oct. 27, 2014

# United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Green River District
Vernal Field Office
170 South 500 East
Vernal, UT 84078
http://www.blm.gov/ut/st/en/fo/vernal.html

JUN 17 2015

IN REPLY REFER TO:
3160 (UTG011)

Kimberly J. Rodell
Upstream Petroleum Management, Inc. for
Vantage Energy Unita LLC
7000 S. Yosemite St., Suite 290B
Englewood, CO 80112

Re: Notice of Expiration
Well No. GDU 63-5-12
NENW, Sec. 5, T6S, R3W
Duchesen County, Utah
Lease No. UTU-78235

RECEIVED
JUL 02 2015
DIV. OF OIL, GAS & MINING

Dear Ms. Rodell:

The Application for Permit to Drill (APD) for the above-referenced well was approved on April 25, 2013. According to our records, no known activity has transpired at the approved location. In view of the foregoing, this office is notifying you that the approval of the referenced application has expired. If you intend to drill at this location in the future, a new Application for Permit to Drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

If you have any questions regarding this matter, please contact Robin R. Hansen at (435) 781-3428.

Sincerely,

/s/ Jerry Kenczka

Jerry Kenczka
Assistant Field Manager
Lands & Mineral Resources

cc: UDOGM

bcc: Well File
I&E Asst.

Form 3160-5
(August 2007)

RECEIVED
JUN 23 2015
BLM Vernal UT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**

***Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***

***SUBMIT IN TRIPLICATE - Other instructions on reverse side.***

5. Lease Serial No.
UTU78235

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
UTU86249X

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
GDU 63-5-12

2. Name of Operator
VANTAGE ENERGY UINTA LLC
Contact: ANDRA J GROSS
E-Mail: agross@upstreampm.com

9. API Well No.
43-013-~~50897-00-X1~~ 52562

3a. Address
116 INVERNESS DRIVE EAST, SUITE 107
ENGLEWOOD, CO 80112

3b. Phone No. (include area code)
Ph: 303-942-0506

10. Field and Pool, or Exploratory
WILDCAT

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 5 T6S R3W NENW 750FNL 1804FWL
39.993839 N Lat, 110.249775 W Lon

11. County or Parish, and State
DUCHESNE COUNTY, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|---|---|---|---|
| ☒ Notice of Intent | ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Subsequent Report | ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Final Abandonment Notice | ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other Change to Original APD |
| | ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| | ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

RECEIVED
JUL 22 2015
DIV. OF OIL, GAS & MINING

This Sundry Notice is being submitted to the Bureau of Land Management on behalf of Vantage Energy Uinta LLC (Vantage) to request an extension to the Application for Permit to Drill for the maximum amount of time allowed. APD - 4/25/15

No information has changed from the original submission. No surface disturbance has been made to this drill site. NEPA - 2013-141 EA

Please contact the undersigned with any questions.

Thank you.

**CONDITIONS OF APPROVAL ATTACHED**

VERNAL FIELD OFFICE
ENG. 6/29/15
GEOL.
E.S.
PET.
RECL.

14. I hereby certify that the foregoing is true and correct.
**Electronic Submission #306272 verified by the BLM Well Information System**
**For VANTAGE ENERGY UINTA LLC, sent to the Vernal**
**Committed to AFMSS for processing by ROBIN R. HANSEN on 06/23/2015 (15RRH0211SE)**

Name *(Printed/Typed)* ANDRA J GROSS — Title PERMIT AGENT

Signature (Electronic Submission) — Date 06/23/2015

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By — Title **Assistant Field Manager Lands & Mineral Resources** — Date **JUL 01 2015**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office **VERNAL FIELD OFFICE**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

UDOGM

# CONDITIONS OF APPROVAL

## Vantage Energy Uinta, LLC

### Notice of Intent
### APD Extension

**Lease:** UTU-78235
**Well:** GDU 63-5-12
**Location:** NWSW Sec 7-T6S-R3W

An extension for the referenced APD is granted with the following conditions:

---

1. The extension and APD shall expire on 047/25/2017.

2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Robin L Hansen of this office at (435) 781-2777

GARY R. HERBERT
*Governor*
SPENCER J. COX
*Lieutenant Governor*

# State of Utah
**DEPARTMENT OF NATURAL RESOURCES**
MICHAEL R. STYLER
*Executive Director*
**Division of Oil, Gas and Mining**
JOHN R. BAZA
*Division Director*

January 14, 2016

Vantage Energy Uinta LLC.
116 Inverness Drive East, Ste 107
Englewood, CO 80112

Re: APD Rescinded – GDU 63-5-12, Sec. 5, T. 6S, R. 3W
Duchesne County, Utah API No. 43-013-52562

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on October 24, 2013. On October 27, 2014 the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective January 14, 2016.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason
Environmental Scientist

cc: Well File
Bureau of Land Management, Vernal

1594 West North Temple, Suite 1210, Salt Lake City, UT 84116
PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR
OIL, GAS & MINING